

CIMELIA

Qu

5443

kat. komp.



5443

CIMELIA

R. XIX. 12 e



VIII. b. 103.

DE LATERI-
BUS ET ANGVLIS TRI-
angulorum, tum planorum rectilineorum
tum Sphæricorum, libellus eruditissimus
& utilissimus, cum ad plerasque Pro-
lemæi demonstrationes intelligen-
das, tum uero ad alia multa,
scriptus à Clarissimo &
doctissimo uiro D. Ni-
colao Copernico
Toronensi.

Additus est Canon semissium subten-
sarum rectorum linearum
in Circulo.

Excusum Vittembergæ per
Iohannem Lufft.
Anno M. D. XLII.

Joannis Brusii 1610
Friburgi Prussia

Mathes. 416.

Has artes teneris annis studiosa Iuuentus
Discito, Mensuras quæ numerosq; docent.
Premia nanque feres suscepti magna laboris,
Ad cœlum monstrant hæc tibi scripta uiam.
Qua patet immensis spacijs pulcherrimus orbis,
Si metas horum cernere mente uoles.
Sidera uel quam cœli regione uagentur,
Æterni cursus quas habeantq; uices.
Cur Luna inuoluat cæca caligine fratrem,
Cur Lunæ usuram lucis & ille neget
Venturos etiam casus quæ fata gubernent
Quas populis clades astra inimica ferant
Hæc si nosse uoles, prius est doctrina tenenda,
Quam breuiter tradunt hæc elementa tibi.
Cunq; hominū mentes, quæ cœlo semina ducunt,
Errent a patria sede domoq; procul,
Hæc doctrina ipsas terrena mole solutas
Cœlesti reduces rursus in arce locat.

Lim. Qu. 5443

DOCTRINA ET VIRTUTE PRAESTANTI

Georgio Hartmano Noribergensi, Ioachi-
mus Rheticus S. D.



VM rerum humanarum inconstantiam, uarios casus summorum uirorum, regnorum mutationes confidero, cum in ceteris rebus imbecillitatem humani generis deploro, tum uero maxime doleo etiam in artes diuinitus humano generi traditas fata temporum seuire. Olim studia frequentissima Mathematicum fuerunt, tota ars ex fundamentis mira solertia, Deo monstrante initia & regente artificum mentes, extructa est, magna lux, magnus honos huius doctrinae fuit, Postea multis seculis iacuit obruta tenebris, fortasse eo quod in hac ultima mundi senectute orbis terrarum Barbarorum imperijs fato quodam oppressus est. Sed quia artes uitae utiles, praecipua Dei dona sunt, res ipsa ostendit, non humana ope, sed quodam singulari Dei beneficio, ut cunq; eas conseruari, & interdum rursus ceu flammam excitari, ne funditus intereant. Sed etiam cum restituta sunt, prorsus accidit hominibus, quod aiunt Pythagoram dixisse de coelestium motuum harmonia, qua ille quidem dixit effici dulcissimos sonos, sed non audiri eos, quia iam propter consuetudinem negligantur, ita surdi homines nec audiunt, nec tueri student artes diuinitus nobis redditas. Et ut cetera praesentia bona fastidimus, ita & hanc doctrinam, cum fruimur quotidianis beneficijs, leuiorem ducimus. Si deesset annorum enumeratio in historijs, in religionibus, in foro, quantae essent in uita tenebrae. Si numerorum doctrinam non haberemus, infinita esset legitimorum contra-

A ij Cuum

suum conturbatio. Architectonica tota ex Geometria or-
ta est, & sunt alię utilitates multe in metiendis corporibus.

Hęc beneficia cum sint in manibus fontes tum negligun-
tur, tum uero a multis superbe contemnuntur. Itaque ma-
gna gratia debetur bonis uiris, qui in tanto doctrinę con-
temptu, sponte laborem suscipiunt. & sumptus faciunt, in
his diuinis artibus excolendis & utilitatis publicę causa con-
seruandis. Cum autem nobis monumenta utilia istic tum
edantur, tum adornentur, duxi hoc te munere uicissim or-
nandum esse, quod non dubito tibi gratissimum fore. Scis
doctrinam Triangulorum maximos usus habere, cum in
alijs geometricis materijs, tum uero præcipue in Astrono-
mia, ideoq; sæpe in eam Ptolemæus incurrit. Quare & hi
qui Ptolemæum explicare conati sunt, multa de Triangu-
lis commentati sunt. Et optarim extare ueteres Mene-
laum & Theodosium. Nunc recens prodijt lucubratio Re-
giomontani, sed multo ante quam hanc uidere potuit uir
Clarissimus & doctissimus D. Nicolaus Copernicus, dum
& in Ptolemæo illustrando, & in doctrina motuum traden-
da elaborat, de Triangulis eruditissime scripsit. Scio tibi
admirationi fore hoc scriptum, cum uidebis, quantas res,
quàm artificiose complexus sit. Vt autem hoc tempore
ederem, eo accidit, quia in enarratione Ptolemæi nobis
opus fuit Triangulorum doctrina, tibiq; eo dedicaui, ut te
prouocarem ad edenda, siqua in hoc genere habes, seu ue-
tera, seu recentia. Huc accedit, quod audio amicitiam ti-
bi Romę fuisse cum autoris fratre. Sed tibi uiro doctissimo
non minor est causa quam hęc ad amandum autorem,
acerimum ipsius ingenium, & cum in cæteris artibus, tum
maxime in doctrina cœlesti eruditio tanta ut ueteribus
summis artificibus conferri possit. Ac gratulari huic ætati
debemus, tantum artificem reliquum esse, qui studia ali-
quorum accendat & adiuuet. Mihi quidem iudico rem
nullam humanam contigisse meliorem, quam talis uiri &
doctoris consuetudinem. Ac si quid unquam mea opera
in

in hoc genere Reipublicæ profutura est, ad cuius utilita-
tem studia nostra referenda sunt, huic doctori acceptum re-
ferri uolo. Itaque cum hanc lucubrationem & ingeniosissime

NB

scriptum esse sciam, & ego eam propter autoris me-
moriæ magnificiam, uelim te hoc mu-
nere magnopere
delectari.

Bene vale.



1848
The following is a list of the
names of the persons who
were present at the
meeting of the
Board of Directors
of the
City of New York
on the 1st day of
January, 1848.

1848

DE LATERIBVS

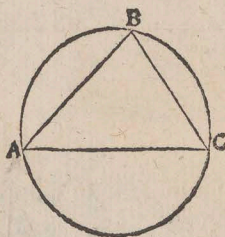
ET ANGVLIS TRIANGV

lorum planorum rectilineorum.

I.

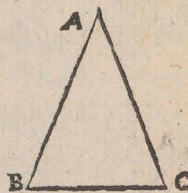


TRIANGVLI datorum angulorum dantur latera. Sit, inq̃, triangulum abc , cui per quintum problema quarti Euclidis circumscribatur Circulus. Erunt igitur & $a b, b c, c a$ circumferentiæ datæ, eo modo, quo $ccclx$. partes sunt duobus rectis æquales. Datis autem circumferentijs dantur etiam latera trianguli inscripti circulo tanquam subtensæ, per expositum Canonem, in partibus, quibus dimetiens assumpta est 2000000 .



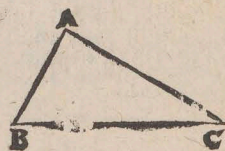
II.

Si uero cum aliquo angulorum duo trianguli latera fuerint data, & reliquum latus cum reliquis angulis cognoscetur. Autenim latera data æqualia sunt aut inæqualia, Sed angulus datus aut rectus est, aut acutus, uel obtusus. Ac rursum latera data datum angulum uel comprehendunt, uel non comprehendunt. Sint ergo primum in triangulo abc duo latera ab & ac data æqualia, quæ angulum a datum comprehendunt. Cæteri igitur, qui ad basim bc cum sint æquales, etiam dantur, uti dimidia residui ipsius a , è duobus rectis. Et si qui circa basim angulus primitus fuerit datus, datur mox ipsi compar, atque ex his duorum rectorum reliquus. Sed datorum angulorum trianguli dantur latera, datur & ipsa bc basis, ex Canone in partibus quibus a uel ac tanquam ex centro fuerit 1000000 . partium siue demetiens 2000000 . partium.



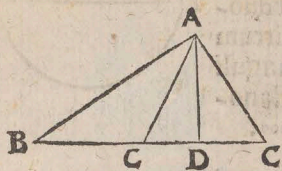
III.

Quod si angulus, qui sub bac rectus fuerit datis cōprehensus laterib⁹, idem eueniet. Quoniam liquidissimū est, q̃ quæ ex $a b$ & ac fiunt quadrata, æqualia sunt ei, quod a basi bc , datur ergo longitudine bc , & ipsa latera inuicem ratione



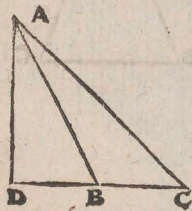
tionē. Sed segmentū circuli quod orthogonū suscipit triangulum, semicirculus est, cuius bc basis dimetiens fuerit. Quibus igitur bc partibus fuerit 2000000. dabuntur ab & ac , tanquam subtendentes reliquos angulos b & c . Quos idcirco ratio Canonis patefaciet in partibus, quibus $ccclx$ sunt duobus rectis æquales. Idem eueniet, si bc fuerit datum cum altero rectum angulum comprehendentium, quod iam li- quide constare arbitror.

III.



Sit iam datus, qui sub a b c angulus acutus, datis etiam comprehensus lateribus a b & b c , & ex a signo descendat perpendicularis ad bc productam si oportuerit, prout intra uel extra triangulum cadat, quæ sit d , per quam discernuntur duo orthogoni a b d & a d c , & quoniam in a b d dantur anguli, nam d rectus & b per hypothesim. Dantur ergo a d & b d tanquam subtendentes angulos a & b in partibus, quibus ab est 2000000. dimetiens circuli per canonem. Et eadem ratione qua ab dabatur longitudine, dantur a d & b d similiter, datur etiam cd , qua bc & b d se inuicem excedunt. Igitur & in triangulo rectangulo a d c datis lateribus a d & c d , datur latus quæsitum a c & angulus a c d per præcedentem demonstrationem.

V.



Nec aliter eueniet, si b angulus fuerit obtusus, quoniam ex a signo in b c extensam rectam lineam perpendicularis acta ad , efficit triangulum a b d datorum angulorum. Nam a b d angulus exterior ipsi a b c datur, & d rectus, dantur ergo b d & a d in partibus, quibus a b fuerit 2000000. Et quoniam b a & b c rationem habent inuicem datam, datur ergo & a b earundem partium, quibus b d ac tota c bd . Idcirco & in triangulo rectangulo a d c , cum data sint duo latera a d & c d , datur etiam a c quæsitum, & angulus ba cum reliquo a c b , qui quærebatur.

VI.

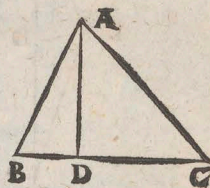
Sit iam alterutrum datorum laterum subtendens angulum

lum b datum, quod sit a cum a b , datur ergo per Canone
nem a c in partibus, quibus est dimetiens circuli circum-
scribentis triangulum abc partium 2000000. & pro ra-
tione data ipsius a c , ad a b , datur in similibus partibus
 a b , atque per canonem, qui sub a c b angulus cum reli-
quo ba c angulo, per quem etiam cb subtensa datur, qua
ratione data, dantur quomodolibet magnitudine.

VII.

Datis omnibus trianguli lateribus dantur anguli.
De Hopleuro notius est, quam ut indicetur, quod singuli
eius anguli trientem obtineant duorum rectorum. In Hofs-
celibus quoque perspicuum est. Nam æqualia latera ad ter-
tium sunt, sicut dimidia diametri ad subtendentem circum-
ferentiam, per quem datur angulus æqualibus comprehen-
sus lateribus ex Canone, quibus circa centrum $ecclx$ sunt
quatuor rectis æquales, deinde cæteri anguli qui ad basim
etiam dantur è duobus rectis tanquam dimidia. Super-
est ergo nunc & in scalenis triangulis id demonstrari, quos
similiter in orthogonios partiemur. Sit ergo triangu-
lum scalenum datorum laterum abc , & ad latus, quod lon-
gissimum fuerit, ut puta bc , descendat perpendicularis
 ad . Admonet aut nos xij . secundi Euclidis q a b latus quod
acutum subtendit angulum minus sit potestate cæteris
duobus lateribus, in eo quod sit sub bc & cd bis. Nam
acutum angulum c esse oportet, eueniet alioqui & a b lon-
gissimum esse latus contra hypothesim, quod ex $xvij$. pri-
mi Euclidis & duabus sequentibus licet animaduvertere.
Dantur ergo bd & dc , & erunt orthogonia a b d &
 a d c datorum laterum & angulorum, ut iam sæpius est re-
petitum, quibus etiam constant anguli trianguli abc quæ-
siti.

Aliter. Itidem commodius forsitan penultima tertij
Euclidis nobis exhibebit, si per breuius latus, quod sit bc
facto c centro, interuallo autem bc , describerimus cir-
culum, qui ambo latera quæ supersunt, uel alterum eo-
rum secabit. Secet modo utrumque a b in e signo & a c
B in



DE TRIANGVLIS SPHAERICIS.

TRIangulum conuexum hoc loco accipimus eum, qui tribus maximorum circularum circumferentijs in superficie Sphærica cōtinetur. Angulorum uero differentiam & magnitudinem penes circumferentiam maximi circuli, qui in puncto sectionis tanq̃ polo describitur, quamque circumferentiam circularum quadrantes angulum comprehendentes interceperunt. Nam qualis est circumferentia sic intercepta ad totam circumcurrentem, talis est angulus sectionis ad quatuor rectos, quos diximus ccclx. partes æquales continere. **I.**

Si fuerint tres circumferentiæ maximorum circularum sphæaræ, quarum duæ quælibet simul iunctæ, tertia fuerint longiores, ex his triangulum componi posse sphæricum perspicuum est. Nam quod hic de circumferentijs proponitur, xxij. vndecimi libri Euclidis demonstrat de angulis, cum sit eadem ratio angulorum & circumferentiarum, & circuli maximi sunt qui per centrum sphæaræ, patet, q̃ tres illi circularū sectores, quorū sunt circumferentiæ, apud centrum sphæaræ angulum constituunt solidum. Manifestum est ergo quod proponitur.

II.

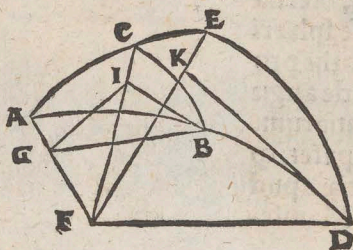
Quamlibet circumferentiam trianguli hemicyclio minorem esse oportet. Hemicyclium enim nullum angulum circa centrum efficit, sed in lineam rectam procumbit. At reliqui duo anguli, quorum sunt circumferentiæ, solidum in centro concludere nequeunt. Proinde neque triangulum sphæricum. Et hanc fuisse causam arbitror, cur Ptolemæus in huiusce generis triangulorum explanatione, præsertim circa figuram sectoris sphærici protestetur, ne assumptæ circumferentiæ semicirculo maiores existant. **III.**

IN Triangulis Sphæricis rectum habentibus angulum, subtendens duplum lateris, quod recto opponitur

B ij angulo

angulo, ad subtensam duplo alterius rectum angulum comprehendendum, est, sicut dimetiens Sphæræ ad eam, quæ duplum anguli sub reliquo & primo lateribus comprehendit si in maximo Sphæræ circulo subtendit.

Esto nanque triangulum Sphericum abc , cuius c angulus rectus existat. Dico quod subtensa dupli ab ad subtensam dupli bc est sicut dimetiens Sphæræ, ad eam quæ in maximo circulo duplum anguli $ba c$ subtendit. Facto in a polo, describatur circumferentia maximi circuli de , & compleantur quadrantes circulorum abd & ace . Et ex centro Sphæræ f agantur communes circulorum sectiones fa ipsorum abd & ace , ipsorum autem ace & de sit fe , atque fd ipsorum abd & de . Insuper & fc circulorum ac & bc . Deinde ad angulos rectos agantur



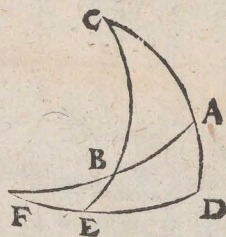
bg ipsi fa , bi ipsi fc , & dk ipsi fe , & connectantur gi .

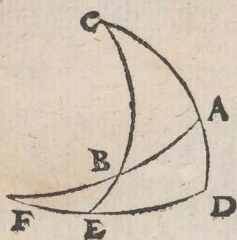
Quoniam igitur si circulus circulum per polos secat, ad angulos rectos ipsum secat, erit angulus qui sub aed comprehenditur rectus, & acb per hypothesim, & utrumque planum edf , & bcf rectum ad ipsum aef . Quapropter si ex signo ipsi fke communis segmento ad rectos angulos in subiecto plano recta linea excitaretur, comprehendet quoque cum kd angulum rectum, per rectorum ad inuicem planorum definitionem. Quapropter etiam ipsa kd per iii . undecimi Euclidis ad aef recta est. Ac eadem ratione bi ad idem planum erigitur, & idcirco ad inuicem sunt dk & bi per vi . eiusdem. Verum etiam $g b$, ad fd , eo quod fgb , & gfd anguli sunt recti, erit per x . undecimi Euclidis, angulus fdk ipsi gbi æqualis. At qui sub $fk d$ rectus est, & gib per definitionem erectæ lineæ. Similium igitur triangulorum proportionalia sunt latera, & ut df ad bg , sic dk ad bi . At bi est dimidia subtendentis duplum cb circumferentiam, quoniam ad angulum rectum est, ad eam, quæ ex centro f , & eadem ratione bg dimidia

dimidia subtendentis duplum latus ba , & d k semissis subtendentis duplam de , siue angulum dupli a , atque d f dimidia diametri sphaerae. Patet igitur quod subtensa dupli ipsius ab , ad subtensam dupli bc , est sicut dimetiens ad eam quae duplum anguli a siue intercepte circumferentie de subtendit, quod demonstrasse fuerit opportunum.

IIII.

In quocunque triangulo rectum angulum habente, alius insuper angulus fuerit datus, cum quolibet latere, reliquus etiam angulus cum reliquis lateribus dabitur. Sit enim triangulum abc habens angulum a rectum, & cum ipso etiam alterutrum ut puta b datum. De latere uero dato trifariam ponimus diuisionem, aut enim fuerit, qui datis adiacet angulis, ut a b , aut recto tantum, ut a c , aut qui opponitur recto, ut b c . Sit ergo primum ab latus datum, & facto in c polo describatur circumferentia maximi circuli de , & completis quadrantibus cad & cbe , producantur ab & de donec se inuicem secent in f signo. Erit ergo uicissim in f polus ipsius cad , eo quod circa a & d sunt anguli recti. Et quoniam si in sphaera maximi orbes ad rectos sese inuicem secuerint angulos, bifariam & per polos se inuicem secant. Sunt ergo & abf & def quadrantes circulorum, cumque data sit ab , datur & reliqua quadrantis bf , & angulus ebf ad uerticem ipsi abc dato aequalis. Sed per praecedentem demonstrationem subtensa dupli bf ad subtendentem dupli ef , est sicut dimetiens sphaerae ad subtendentem duplum anguli ebf . Sed tres earum datae sunt, dimetiens sphaerae, duple bf , atque anguli dupli ebf , siue semisses ipsorum. Datur ergo per xvi. sexti Euclidis etiam dimidia subtendentis duplam ef per canonem ipsa ef circumferentia, & reliqua quadrantis de , siue angulus c quaesitus. Eodem modo ac uicissim sunt subtensae duplicium de ad ab , & ebc ad cb . Sed tres iam datae sunt de , ab , & ebc quadrantes circuli, datur ergo & quarta subtendens duplum cb , & ipsum latus c b quaesitum. Et quoniam subtensae duplicium sunt ipsorum





rum cb ad ca , & bf ad $e f$. Quoniam utrorūq; sunt rationes sicuti dimetientis sphaeræ ad subtensam duplo $c b$ a angulo, & quæ vni eadem sunt rationes, sibi inuicem sunt eadem. Tribus iam igitur datis $b f$ $e f$ & cb datur quarta $c a$, & ipsum $c a$ tertium latus trianguli $a b c$. Si iam $a c$ latus assumptum in datis, propositumq; sit inuenire $a b$ & $b c$ latera, cum reliquo angulo c , habebit rursus permutatim subtensa dupli $c a$ ad subtensam dupli $c b$ eandem rationem, quam subtendens duplum $a b c$ angulum ad dimetientem, quibus $c b$ latus datur & reliqua $a d$ & $b e$ ex quadrantibus circulorum. Ita rursus habebimus ut subtensam dupli $a d$ ad subtensam dupli $b e$, sic subtensam dupli $a b f$, & est dimetiens, ad subtensam dupli $b f$. Datur ergo $b f$ circumferentia, quodq; superest $a b$ latus. Simili ratione ut in præcedentibus ex subtendentibus dupla $b c$, $a b$ & $f b e$, datur subtensa dupli $d e$, siue angulus c reliquus. Porro si $b c$ fuerit in assumpto, dabitur rursus ut antea $a c$ & reliquæ $a d$ & $b e$, quibus per subtensas rectas lineas, & diametro, ut sæpe dictum, datur $b f$ circumferentia & reliquū $a b$ latus, ac subinde iuxta præcedens Theorema, per $b c$, $a b$, & $c b e$ datas proditur $e d$ circumferentia, angulus videlicet c reliquus, quem quærebat. Sicq; rursus in triangulo $a b c$ duobus angulis a & b , datis, quorum a rectus existit cum aliquo trium laterum datus est angulus tertius cum reliquis duobus lateribus, quod erat demonstrandum.

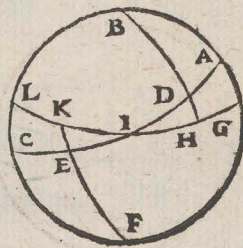
V.

Trianguli datorum angulorū, quorum aliquis rectus fuerit, dantur latera. Manente adhuc præcedente figura, ubi propter angulum e datum, datur $d e$ circumferentia, & reliqua $e f$ ex quadrante circuli. Et quoniam $b e f$ est angulus rectus, eo quod $b e$ descendit à polo ipsius $d e f$, & qui sub $e b f$ angulus, est ad uerticem dato. Triangulum igitur $b e f$ rectum angulū e habens, & insuper b datum cum latere $e f$, datorū est angulorum & laterum per Theorema præcedens, datur ergo $b f$, & reliqua ex quadrante $a b$, ac itidem in triangulo $a b c$ reliqua latera $a c$ & $b c$ dari per præcedentia demonstratur. Si

VI.

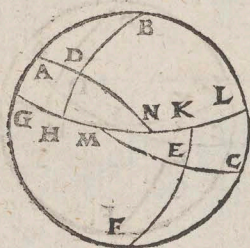
Si in eadem sphaera bina triangula rectum angulum ac insuper alium equalem habuerint, alteriū alteri, unumq; latus vni lateri æquale, siue quod æqualib⁹ adiacet angulis, siue quod alterutro æqualium angulorum opponitur, reliqua quoq; latera, reliquis lateribus, æqualia alterum alteri, ac angulum angulo, reliquum reliquo æqualem habebunt. Sit hemisphaerium a b c, in quo suscipiantur bina triangula a b d & c e f, quorum anguli a & c sint recti, & præterea angulus a d b æqualis ipsi c e f, vnumq; latus uni lateri, & primum quod æqualibus ipsis adiacet angulis, hoc est, a d ipsi c e. Aio latus quoq; a b lateri c f, & b d ipsi e f, ac reliquum angulum a b d reliquo c e f, esse æqualia. Sumptis enim in b & f polis, describantur maximorum circulos quadrantes g h i & i k l, compleanturq; a d i & c e i, quos seinuicem secare necesse est in polo hemisphaerij, qui sit in i signo, eo quod anguli circa a & c sunt recti, atq; quod g h i & c e i per polos ipsius a b c circuli sunt descripti. Quoniam igitur a d & c e assumuntur latera æqualia, erunt igitur reliquæ d i & i e æquales circumferentiæ, & anguli i d h & i e k sunt enim ad verticem positi assumptorum æqualium, & qui circa h & k sunt recti, & quæ vni sunt eadem rationes inter se sunt eadem, erit par ratio subtensæ dupli i d, ad subtensam dupli i k, cum sit vtraq; per tertiū præcedens, sicut dimetientis sphaeræ ad subtendentem duplum angulum i d h, siue æqualem dupli, qui sub i e k. Et per xiiij. quinti Elementorum Euclidis, cū sit subtendens duplam d i circumferentiam, æqualis ei, quæ duplam i e subtendit, erunt quoque duplicibus subtensæ i k & h i æquales, & quemadmodum in circulis æqualib⁹ æquales rectæ lineæ circūferentias auferunt æquales, & partes eodem modo multiplicium in eadem sunt ratione, erunt ipsæ simplices i h & i k circumferentiæ æquales, ac reliquæ quadrantium g h & k l, quibus constant anguli b & f æquales. Quapropter eadem quoq; ratio est subtensæ duplicis a d ad subtensam duplicis b d, atq; subtensæ dupli c e ad subtensam dupli b d, quæ subtensæ duplicis e c ad subtensam duplicis e f.

Vtraq;



Vtraque enim est, ut subtendentis duplam hg siue æqualem ipsi $k l$ ad subtensam duplicis $b d$ h , hoc est dimetientis per ij . Theorema conuersum, & $a d$ est æqualis ipsi $c e$. Ergo per $xiii$. quinti elementorum Euclidis $b d$ æqualis est ipsi $e f$ per subtensas ipsis duplicibus rectas lineas. Eodem modo per $b d$ & $e f$ æquales, demonstrabimus reliqua latera & angulos æquales. Ac uicissim si $a b$ & $c f$ assumantur æqualia latera, eandem sequentur rationis identitatem.

VII.

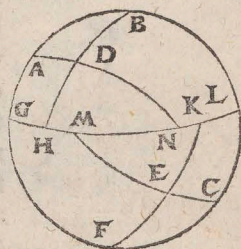


Iam quoque si non fuerit angulus rectus, dummodo latus quod æqualibus adiacet angulis alterum alteri æquale fuerit, itidem demonstrabitur. Quemadmodum si binorum triangulorum $a b d$ & $c e f$, duo anguli b & d utcumque fuerint æquales duobus angulis e & f , alter alteri, latus quoque $b d$, quod adiacet æqualibus angulis, lateri $e f$ æquale. Dico rursus æquilatera & æquiangula esse ipsa triangula. Susceptis enim denuo polis in b & f , describantur maximorum circularum circumferentiæ gh & kl . Et productæ $a d$ & gh se secant in n , atque $e c$ & kl similiter productæ in m . Quoniam igitur bina triangula $h d n$ & $e k m$ angulos $h d n$ & $e k m$ habent æquales, qui sunt ad uerticem assumptis æqualibus, & qui circa h & k sunt recti per polos sectione, latera etiam $d h$ & $e k$ æqualia. AEquiangula sunt ergo ipsa triangula & æquilatera per præcedentem demonstrationem. Acrursus quia gh & kl sunt æquales circumferentiæ propter angulos b & f positos æquales. Tota ergo $gh n$ toti $m k l$ æqualis per axioma additionis æqualium. Sunt igitur & hic bina triangula agn & mcl habentia unum latus gn æquale uni ml , angulum quoque ang æqualem cml , atque g & l rectos. Erunt ob id ipsa quoque triangula æqualium laterum & angulorum. Cum igitur æqualia ab æqualibus sublata fuerint, relinquentur æqualia ad ipsi ce , $a b$ ipsi cf , atque $b a d$ angulus reliquo ecf angulo. Quod erat demonstrandum.

Adhuc

VIII.

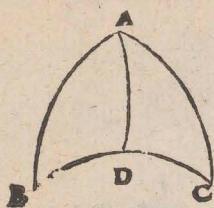
Adhuc autem si bina triangula, duo latera duobus lateribus æqualia habuerint, alterum alteri, & angulum angulo æqualem, siue quem latera æqualia comprehendunt, siue qui ad basim fuerit, basim quoque basi, ac reliquos angulos reliquis habebunt æquales. Vt in præcedenti figura, sit latus $a b$ æquale lateri $c f$, & $a d$ ipsi $c e$. Ac primum angulus a , æqualibus cõprehensus lateribus angulo c . Dico basim quoq; $b d$, basi $e f$, & angulum b ipsi f , & reliquum $b d a$ reliquo $c e f$ esse æqualia. Habebimus enim bina triangula $a g n$ & $c l m$, quorum anguli g & l sunt recti, atq; $g a n$ æqualem ipsi $m c l$, & reliqui sunt equalium, $b a d$ & $e c f$. AEquiangula igitur sunt inuicem & æquilatera ipsa triangula. Quapropter ex æqualibus $a d$ & $c e$ relinquuntur etiam $d n$ & $m e$ æqualia. Sed iam patuit angulum qui sub $d n h$ æqualem esse ei qui sub $e m k$, & qui circa $h k$ sunt recti, erunt quoq; bina triangula $d h n$ & $e m k$ æqualium inuicem angulorum & laterum, æquibus etiam $b d$ relinquetur æquale ipsi $e f$, & $g h$ ipsi $k l$, quibus sunt b & f anguli æquales, ac reliqui $a d b$ & $e c f$ æquales. Quod si pro lateribus $a d$ & $e c$ assumantur bases $b d$ & $e f$ æquales, æqualibus angulis obiecti, residendis ceteris eodem modo demonstrabuntur, quoniam per angulos $g a n$ & $m c l$ æquales exteriores, & $g c$ rectos, atq; $a g$ ipsi $c l$, habebimus itidem bina triangula $a g n$ & $m c l$, quæ prius equalium inuicem angulorum & laterum. Illa quoq; particularia $d n h$ & $m e k$ similiter propter h & k angulos rectos, & $d n h$, $k m e$ æquales, atq; $d h$ & $e k$ latera æqualia, quæ reliqua sunt quadrantium, e quibus eadem sequuntur, quæ diximus.



IX.

Isoſcelium in Sphæra triangulorum, qui ad basim anguli, sunt sibi inuicem æquales. Esto triangulum $a b c$, cuius duo latera $a b$ & $a c$ sint æqualia. Ab a vertice descendat maximus orbis, qui secet basim ad angulos rectos, hoc est, per polos, sitq; $a d$. Cum igitur binorum triangulorum $a b d$ & $a d c$ latus $b a$ est æquale lateri $a c$,





& a d vtriq; cōmune & anguli, qui circa d recti, patet per præcedentem demonstrationem, q̄ anguli qui sub a b c & a c b sunt æquales, quod erat demonstrandum. Porisma, hinc sequitur, q̄ quæ per verticem trianguli Ilosce-
lis circumferentia ad angulos rectos cadit in basim, basim simul & angulum æqualibus comprehensum lateribus, bifariam secabit, & è conuerso, quod constat per hanc præcedentem demonstrationem.

X.

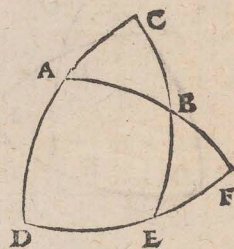
Bina quælibet triangula in eadem Sphæra æqualia latera habentia alterum alteri, æquales etiam angulos habebunt alterum alteri figillatim. Quoniam enim trina vtrobiq; maximorum circularum segmenta, pyramides cōstituunt fastigia habentes in centro sphære, bases autem triangula, quæ sub rectis lineis circumferentias triangulorum connexorum subtendentibus plana continentur, suntq; illæ pyramides similes & æquales, per definitionem æqualium similium solidarum figurarum. Ratio autem similitudinis est, ut angulos quocunq; modo susceptos, habeant adinuicem equalem alterum alterius, habebunt ergo angulos ipsa triangula æquales inuicem, & præsertim, qui generalius definiunt similitudinem figurarum, eas esse uolunt, quæcumq; similes habent declinationes, ac in eisdem angulos sibi inuicem æquales. E quibus manifestum esse puto, quod in sphæra triangula, quæ inuicem equilatera sunt, similia esse, ut in planis.

XI.

Omne triangulum, cuius duo latera fuerint data cum aliquo angulo, datorum efficitur angulorum & laterum. Nam si latera data fuerint æqualia, erunt qui ad basim anguli æquales, & deducta à vertice ad basim circumferentia ad angulos rectos, facile patebunt quæ sita per porisma nonæ. Sin autem fuerint data latera inæqualia, ut in triangulo a b c, cuius angulus a sit datus, cum binis lateribus, quæ uel comprehendunt datum angulum, uel non

com-

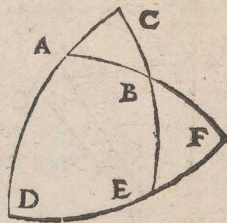
comprehendunt. Sint ergo primum comprehendentes ipsum $a b$ & $a c$ data latera, & facto in c polo describatur circumferentia maximi circuli $d e f$, & compleantur quadrantes $c a d$ & $c b e$, atq; $a b$ productum secet $d e$ in f signo. Ita quoq; in triangulo $a d f$ datur $a d$ latus reliquum quadrantis ex $a c$. Angulus etiam $b a d$ ex $c a b$ ad duos rectos. Nam eadem est ratio angulorum atq; dimensio, qui rectarum linearum ac planorum sectione contingunt, & d angulus est rectus. Igitur per quartam huius erit ipsum triangulum $a d f$ datorum angulorum & laterum. Acrursus trianguli $b e f$ inuentus est angulus f , & e rectus per polum sectione, latus quoq; $b f$, quo tota $a b f$ excedit $a b$. Erit ergo per idem Theorema & $b e f$ triangulum datorum angulorum & laterum. Vnde ex $b e$ datur $b c$ reliquum quadrantis & latus quaesitum, & ex $e f$ reliquum totius $d e f$, quod $d e$, & est angulus c , atq; per angulum qui sub $e b f$, is qui ad verticem $a b c$ quaesitus. Quod si loco $a b$ assumatur $c b$, quod dato opponitur angulo, idem eueniet. Dantur enim reliqua quadrantium $a d$ & $b e$, atq; eodem argumento duo triangu-
 gula $a d f$ & $b e f$ datorum angulorum & laterum, ut prius, e quibus triangulum $a b c$ propositum datorum fit laterum & angulorum, quod intendebatur.

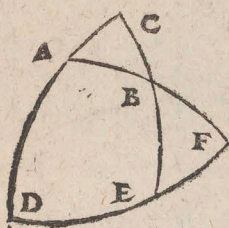


XII.

Adhuc autem si duo anguli utcumque dati fuerint cum aliquo latere, eadem euenient. Manente enim praestruccione figuræ prioris, sint trianguli $a b c$, duo anguli $a c b$ & $b a c$ dati cum latere $a c$, quod vtrique adiacet angulo. Porro si alter angulorum datorum rectus fuisset, poterant cetera omnia per quartum præcedens ratiocinando consequi. Hoc autem differre uolumus, quo minus sint recti. Erit igitur $a d$ reliqua quadrantis ex $a c d$, & qui sub $b a d$ angulus residuus ipsius $b a c$, è duobus rectis, atque d rectus. Igitur trianguli $a f d$ per quartam huius dantur anguli cum lateribus.

C ij Ac

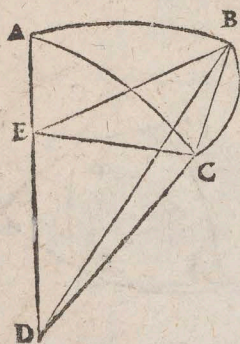


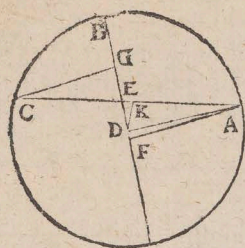


Ac per c angulum datum, datur d e circumferentia, & reliqua e f atq; b e. f. rectus, & f angulus communis vtriq; triangulo. Dantur itidem per quartam huius b e & b f, quibus cætera constabunt latera a b & b c quæ sita. Cæterum si alter angulorum datorum lateri dato oppositus fuerit, ut puta, si a b c angulus detur, loco eius q̄ sub a c b remanentibus cæteris, constabit eadem demonstratione totum a d f triangulum datis angulis & lateribus, ac particulare b e f triangulum similiter, quoniam propter angulum f vtriq; communem, & e b f qui ad verticem est dato, & e rectum cuncta etiam latera eius dari in præcedentibus demonstratur, e quibus tandem sequuntur eadem quæ diximus. Sunt enim hæc omnia mutuo semper nexu colligata, atq; perpetuo, vti formam Globi decet.

XIII.

Trianguli demum datis omnibus lateribus dantur anguli. Sint trianguli a b c omnia latera data, aio omnes quoq; angulos inueniri. Aut enim triangulum ipsum latera habebit æqualia, vel minime. Sint ergo primum æqualia a b, a c. Manifestum est, quod etiam semisses subtendentium dupla ipsorum æquales erunt. Sint ipsæ b e, c e, quæ se inuicem secabunt in e signo, propter æqualem earum distantiam à centro spheræ in sectione circulorum communi d e, quod patet per iij. definitionem tertij Euclidis, & eius conuersionem. Sed per ij. eiusdem libri propositionem d e b angulus rectus est in a b d plano, & d e c similiter in plano a c d . Igitur angulus b e c est angulus inclinatio nis ipsorum planorum per iij. definitionem vndecimi Euclidis, quem hoc modo inueniemus. Cum n. subtensa fuerit recta a linea b c, habebimus triangulum rectilineum b e c datorum laterum p̄ datas illorum circumferentias, fiet etiam datorum angulorum, & angulum b e c habebimus quæsitum, hoc est, b a c sphericum, & reliquos per præcedentia. Quod si scalenon fuerit triangulum, vt in secunda figura, manifestum est, quod rectarum sub ipsis duplis semisses linearum minime se tangent. Quoniam si a c circumferentia maior fuerit



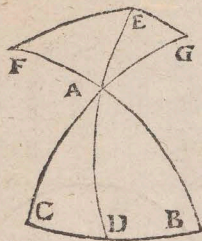


e g, sic a e ad e c. Quibus igitur numeris a f vel g c data fuerint, habebimus in iisdem a e & e c, dabitur ex his tota a e c in eisdem. Sed ipsa subtendens a b c circumferentiam datur in partibus, quibus quæ ex centro d e b, quibus etiam ipsius a c dimidia a k, & reliqua e k. Coniungantur d a & d k, quæ etiam dabuntur in eisdem partibus, quibus d b, tanquam semissis subtendentis reliquum segmentum ipsius a b c à semicirculo, comprehensum sub angulo d a k & angulus igitur a d k datur comprehensens, dimidiam a b c circumferentiam. Sed & trianguli duobus lateribus datis & angulo e k d recto, dabitur etiam e d k, hinc totus sub e d a angulus comprehensens a b circumferentiam, qua etiam reliqua c b constabit, quorum expetebatur demonstratio.

XV.

Trianguli datis omnibus angulis, etiam nullo recto, dantur omnia latera. Eſto triangulum a b c, cuius omnes anguli ſint dati, nullus autem eorum rectus. Aio omnia quoque latera eius dari. Ab aliquo enim angulorum ut a deſcendat per polos ipſius b c circumferentia a d, quæ ſecabit ipſum b c ad angulos rectos, ipſa ſc̃p̃ a d cadet in triangulum, niſi alter angulorum b uel c ad baſim obtuſus eſſet, & alter acutus, quod ſi accideret, ab ipſo obtuſo deducendus eſſet ad baſim. Completis igitur quadrantibus b a f, c a g, d a e, factisq; polis in b c, deſcribantur circumferentia e f, e g. Erunt igitur & circa f g anguli recti. Triangulorum igitur rectum angulum habentium erit ratio dimidia quæ ſub duplo a e, ad dimidiam ſub duplo e f, quæ dimidia diametri ſphærae ad dimidiam ſubtendentis duplum anguli e a f. Similiter in triangulo a e g angulum rectum habente g, ſemiſſis quæ ſub duplo a e ad ſemiſſem, quæ ſub duplo e g, eandem habebit rationem, quam dimidia diametri ſphærae ad dimidiam, quæ duplum anguli e a g ſubtendit. Per æquam igitur rationem dimidia ſub duplo e f ad dimidiam ſub duplo e g ratio-

nem



nem habebit, quam semissis sub duplo angulo eaf ad semissim sub duplo anguli eag . Et quoniam $\& f e, e g$ circumferentiæ datæ sunt, sunt enim residua, quibus anguli $a \& b$ differunt à rectis. Habebimus ergo ex his rationem angulorum $eaf \& eag$, hoc est, $b a d$ ad $c a d$, qui illis ad verticem sunt, datos. Totus autem $b a c$

datus est. Per præcedens igitur Theorema

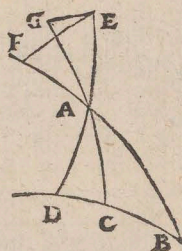
etiam $b a d \& c a d$ anguli dabuntur.

Deinde per quintum, latera

$a b, b c, a c, c d$, totumq;

$b c$ assequemur.

FINIS.



CANONSVBTEN
SARVM IN CIRCULO RE-
ctarum linearum.

CANON SVBTENSARVM

	0		1		2		3		4	
1	2509	2509	177433	2608	331902	2907	526163	2503	700467	50
2	5819		180341		354309		529170		703368	53
3	8727		183250		357716		53207		706270	57
4	11636		186159		360523		534980		709172	55
5	13544		189066		363530		537384		712073	55
6	17453		191975		366437		540789		714975	54
7	20362		194883		369344		543694		717876	53
8	23271		197792		372251		546598		720777	52
9	26180		200700		375156		549503	2904	723678	51
10	29088		203608		378064		552407		726579	50
11	31997		206517		380971		555312		729480	49
12	34906		209425		383878		558216		732381	48
13	37815		212333		386785		561120		735282	47
14	40724		215241		389692		564024		738183	46
15	43632		218149		392598		566928		741084	45
16	46541		221057		395505		569832		743985	44
17	49450		223965		398412		572736		746886	43
18	52359		226873		401318		575640		749787	42
19	55268		229781		404225		578544		752688	41
20	58177		232689		407131		581448		755588	40
21	61086		235597		410038		584352		758489	39
22	63995		238505		412944		587256		761389	38
23	66904		241413		415851		590160		764290	37
24	69813		244321		418757		593064		767180	36
25	72721		247229		421663		595967		770090	35
26	75630		250137		424570		598871		772991	34
27	78539		253045		427476		601775		775891	33
28	81448		255953		430382		604678		778791	32
29	84357		258861		433288		607582		781691	31
30	87265		261769		436194		610485		784591	30
	89		88		87		86		85	

IN CIRCULO RECTARVM LINEARVM.

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58	93083	267585	442006	616292	790391	28
57	95992	270493	444912	619196	793291	27
55	98901	273401	447818	622099	2903 796191	26
55	101809	2763108	450724	625002	799090	25
54	104718	279216	453630	627905	801990	24
53	07627	282124	456536	630808	804889	23
52	10536	285032	459442	633711	807789	22
51	13445	287940	462348	636614	810688	21
50	16353	290847	465253	639517	813587	20
49	19262	293755	468159	642420	816486	19
48	22171	296663	471065	645323	819385	18
47	25079	299570	473970	648226	822284	17
46	27988	302478	476876	651129	825183	16
45	30896	305385	479781	654031	828082	15
44	33805	308293	482687	656934	830981	14
43	36714	311200	485592	659837	833880	13
42	39622	314108	488498	662739	836778	12
41	42531	317015	491403	665642	839677	11
40	45439	319922	494308	668544	842575	10
39	48348	322830	497214	671447	845474	9
38	51257	325737	500119	674349	848372	8
37	54165	328645	503024	677251	2902 851271	7
36	57074	331552	505929	680153	854169	2898 6
35	59982	334459	508834	683055	857067	5
34	62891	337367	511740	685957	859965	4
33	65799	340274	514645	2905 688859	862863	3
32	68708	343181	517550	691761	865761	2
31	71616	346088	520455	694663	868659	1
30	74529	348995	523360	697565	871557	0
	89	88	87	86	85	

D

CANON SVBTENSARVM

	5		6		7		8		9	
	1374455		1048178		1221580	2887	1394612		1567215	59
	2877553		1051071		1224467		1397492		1570091	58
	3880250		1053964		1227354		1400373		1572964	57
	4883148		1056857		1230231		1403253		1575837	56
	5886045		1059749		1233128		1406133		1578705	55
	6888943		1062642	2892	1236015		1409013		1581581	54
	7891840		1065534		1238901		1411893		1584453	53
	8894737		1068426		1241788		1414772		1587325	52
	9897634	2897	1071318		1244674	2836	1417652		1590197	51
	10900531		1074210		1247560		1420531	2879	1593069	50
	11903428		1077102		1250446		1423410		1595941	49
	12906325		1079994		1253332		1426289		1598812	48
	13909222		1082886		1256218		1429168		1601684	47
	14912119		1085778		1259104		1432047		1604555	46
	15915016		1088669		1261990		1434926		1607426	45
	16917913		1091561		1264876		1437805		1610297	44
	17920809		1094452		1267761		1440684		1613168	43
	18923706	2896	1097344	2891	1270647		1443562		1616038	42
	19926602		1100235		1273532	2885	1446441	2878	1618909	41
	20929498		1103126		1276417		1449319		1621779	40
	21932395		1106017		1279302		1452197		1624649	39
	22935291		1108908		1282187		1455075		1627519	38
	23938187		1111799		1285072		1457953		1630389	37
	24941083		1114690	2890	1287957		1460831		1633259	36
	25943979		1117580		1290841		1463708	2877	1636129	35
	26946875		1118471		1293726		1466586		1638999	34
	27949771		1123361		1296610	2834	1469463		1641868	33
	28952667		1126252		1299494		1472340		1644738	32
	29955563		1129142		1302378		1475217		1647607	31
	30958458		1132032		1305262		1478094		1650476	30
	34		83		82		81		80	

IN CIRCULO RECTARVM LINEARVM.

	5	6	7	8	9	
59	31 961354	2895 1134922	1308146	1480971	1653345	29
58	32 964249	1137812	1311030	1483848	1656214	28
57	33 967144	1140702	1313914	1486714	1659082	27
56	34 970039	1143592	1316798	1489601	1661951	26
55	35 972934	1146482	1319681	1492477	1664819	25
54	36 975829	1149372	1322564	1495353	1667687	24
53	37 978724	1152261	1325447	1498229	1670555	23
52	38 981619	1155151	1328330	1501105	1673423	22
51	39 984514	1158040	1331213	1503981	1676291	21
50	40 987408	1160929	2889 1334096	1506857	1679159	20
49	41 990303	1163818	1336979	1509733	1682027	19
48	42 993198	1166707	1339862	1512608	1684894	18
47	43 996092	1169596	1342744	1515484	1687761	17
46	44 998987	1172485	1345627	1518359	1690628	16
45	45 1001881	2894 1175374	1348509	1521234	1693495	15
44	46 1004775	1178263	1351392	1524109	1696362	14
43	47 1007669	1181151	1354274	1526984	1699229	13
42	48 1010563	1184040	1357156	1529859	1702095	12
41	49 1013457	1186928	2888 1360038	1532734	1704962	11
40	50 1016351	1189816	1362920	1535608	1707828	10
39	51 1019245	1192704	1365802	2881 1538482	1710694	9
38	52 1022139	1195592	1368683	1541356	1713560	8
37	53 1025032	1198480	1371564	1544230	1716426	7
36	54 1027926	1201368	1374446	1547104	1719292	6
35	55 1030819	1204255	1377327	1549978	1722157	5
34	56 1033713	2893 1207143	1380208	1552852	1725022	4
33	57 1036606	1210031	1383089	1555725	1727887	3
32	58 1039499	1212918	1385970	1558599	1730752	2
31	59 1042392	1215806	1388851	2880 1561472	1733617	1
30	60 1045285	1218693	1391731	1564345	1736482	0
	84	83	82	81	80	

CANON SVBTENSARVM

	10		11		12		13		14		
1	739347	2864	1910945	265	2081962		2252345		2422041	2822	59
2	742211		1913800		2084807		2255179		2424863		58
3	745079		1916655		2087652		2258013		2427685		57
4	747919		1919510		2090497		2260847	2833	2430507	2821	56
5	750303		1922365		2093342	2844	2263680		2433329		55
6	753667		1925220	2854	2096185		2266512		2436150		54
7	756531	2863	1928074		2099030		2269346		2438971		53
8	759394		1930928		2101874		2272179		2441792		52
9	762258		1933782		2104718		2275012	2832	2444613		51
10	765121		1936636		2107562	2843	2277844		2447434	2820	50
11	767984		1939490	2853	2110405		2280676		2450254		49
12	770847		1942344		2113248		2283508		2453074		48
13	773710		1945197		2116091		2286340		2455894		47
14	776573		1948050		2118934		2289163	2831	2458714		46
1	779437		1950903		2121777		2292004		2461533	2819	45
16	782298	2862	1953756		2124620		2294835		2464352		44
17	785160		1956609		2127462	2842	2297666		2467171		43
18	788022		1959462	2852	2130304		2300497		2469990		42
19	790884		1962314		2133146		2303328		2472809		41
20	793746		1965166		2135988		2306159	2830	2475628	2818	40
21	796608		1968018		2138830	2841	2308989		2478445		39
22	799469	2851	1970870		2141671		2311819		2481264		38
23	802331		1973722		2144512	2851	2314649		2484082		37
24	805192		1976574	2861	2147353		2317479		2486900	2817	36
25	808053	2860	1979425		2150194		2320309		2489717		35
26	810914		1982276		2153035		2323138	2829	2492534		34
27	813774		1985127		2155876	2640	2325967		2495351		33
28	816634		1987978		2158716		2328799		2498168		32
29	819495		1990829	2850	2161556		2331625		2500984	2816	31
30	822355		1993679		2164396		2334454	2928	2503800		30
	79		78		77		76		75		

IN CIRCULO RECTARVM LINEARVM.

	10		11		12		13		14		
59	31 82 5215		1996530		21 67236		2337282		2506616		29
58	32 823075		1959380		21 70076		2340110		2509432		28
57	33 830935		2002230		21 72916	2839	2342938		2512248		27
56	34 833795		2005080		21 75755		2345766		2515064		26
55	35 836684	2859	2007930		21 78594		2348594	2827	2517879	2815	25
54	36 839513		2010780		21 81433		2351421		2520694		24
53	37 842372		2013629	2849	21 84272		2354248		2523509		23
52	38 845231		2016478		21 87111	2938	2357075		2526324		22
51	39 848090		2019327		21 89949		2359902		2529138	2814	21
50	40 850949		2022176		21 92787		2362729		2531953		20
49	41 853808	2858	2025025		21 95625	2837	2365555	2826	2534766		19
48	42 856666		2027874		21 98463		2368381		2537580		18
47	43 859524		2030722	2848	22 01300		2371207		2540393	2813	17
46	44 862382		2033570		22 04137		2374033		2543206		16
45	45 865240		2036418		22 06974		2376859	2825	2546019		15
44	46 868098		2039266		22 09811		2379684		2548832		14
43	47 870956	2857	2042114		22 12648		2382509		2551645		13
42	48 873811		2044962	2847	22 15485		2385334		2554458	2812	12
41	49 876670		2047809		22 18322	2836	2388159		2557270		11
40	50 879527		2050656		22 21158		2390983		2560082		10
39	51 882384		2053503		22 23994		2393806	2824	2562894		9
38	52 885241		2056350		22 26830		2396632		2565706	2811	8
37	53 888098	2856	2059197	2846	22 29666		2399456		2568517		7
36	54 890954		2062043		22 32502	2835	2402285		2571328		6
35	55 893810		2064889		22 35337		2405104		2574139		5
34	56 896666		2077735		22 38172		2407927	2823	2576950	2810	4
33	57 899522		2070581		22 41007		2410750		2579760		3
32	58 902378		2073427		22 43842		2413573		2582570		2
31	59 905234		2076272	2845	22 46677	2834	2416396		2585380		1
30	60 908090		2079117		22 49511		2419219		2588190		0
	79		78		77		76		75		

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CANON SVBTENSARVM

15	16	17	18	19	
12591000	23092759169	1926499	13092936	63258432	59
22593809	2761963	2929280	3095702	3261182	58
32596618	2764761	52932061	3098468	3263931	57
42599427	2767556	2934842	3101234	53266681	56
52602236	2770351	1937623	3103999	3269430	55
62605045	82773146	2940403	3106764	3272179	54
72607853	2775941	41943183	3109529	3274927	53
82610661	2778735	2945963	3112294	43277675	52
92613469	2781529	2948743	3115058	3280423	51
102616277	72784323	2951523	3117822	3283171	50
112619084	2787117	32954302	3120586	3288918	49
122621891	2789911	2957081	3123349	3288665	48
132624698	2792704	2959860	3126112	3291412	47
142627505	2795497	2962638	3128875	3294159	46
152630312	62798290	2965416	3131638	23296906	45
162633118	2801082	2968194	3134400	3299652	44
172635924	2803874	2970972	3137162	3302398	43
182638730	2806666	2973750	73139924	3305144	42
192641536	2809458	2976527	63142686	3307889	41
202644342	52812250	12979305	3145448	3310634	40
212647147	2815041	2982081	3148209	3313379	39
222649952	2817832	2984857	3150970	3316123	38
232652757	2820623	2987633	3153731	2863318867	37
242655562	42823414	2990409	3156491	3321611	36
252658366	2826204	2993185	53159251	3324355	35
262661170	2828994	2995960	3162011	27593327398	34
272663974	32831784	2998735	3164770	3329841	33
282666777	2834574	43001510	3167529	3332585	32
292669580	2837364	27893004284	3170288	3335327	31
302672383	2840153	3007058	3173047	83338069	30
74	73	72	71	70	

IN CIRCULO RECTARVM LINEARVM.

	15	16	17	18	19	30
59	312675186	2842942	3009832	3175805	3340811	29
58	322677989	2845731	3012606	3178563	3343553	28
57	332680792	2848520	3015380	3181321	3346294	27
56	342683595	2851308	3018153	3184079	3349035	26
55	352686307	2854096	3020926	3186837	3351776	25
54	362689199	2856884	3023699	3189594	3354516	24
53	372692001	2859672	3026472	3192351	3357256	23
52	382694802	2862459	3029244	3195108	3359996	22
51	392697603	2865246	3032016	3197864	3362736	21
50	402700404	2868033	3034788	3200620	3365475	20
49	412703205	2870819	3037559	3203375	3368214	19
48	422706005	2873605	3040330	3206130	3370953	18
47	432708805	2876391	3043101	3208885	3373691	17
46	442711605	2879177	3045872	3211640	3376429	16
45	452714405	2881963	3048643	3214395	3379167	15
44	462717204	2884748	3051413	3217150	3381905	14
43	472720003	2887533	3054183	3219904	3384642	13
42	482722802	2890318	3056953	3222658	3387379	12
41	492725601	2893103	3059723	3225412	3390116	11
40	502728400	2895888	3062492	3228165	3392852	10
39	512731198	2898672	3065261	3230918	3395588	9
38	522733996	2901456	3068030	3233671	3398324	8
37	532736794	2904240	3070798	3236423	3401060	7
36	542739592	2907023	3073566	3239175	3403795	6
35	552742389	2909806	3076334	3241927	3406530	5
34	562745186	2912589	3079102	3244679	3409265	4
33	572747983	2915371	3081869	3247430	3411999	3
32	582750780	2918153	3084636	3250181	3414733	2
31	592753577	2920935	3087403	3252932	3417467	1
30	602756373	2923717	3090170	3255682	3420201	0
	74	73	72	71	70	

CANON SVBTENSARVM

20	21	22	23	24
1342 2914	2733 3586395	3748763	3909589	4070023
2342 5667	3589110	3751460	3912666	4072680
3342 8400	3591825	3754156	3915343	4075337
4343 1133	3594540	3756852	3918020	4077993
5343 3865	23597254	3759548	3920696	4080649
6343 6597	3599968	3762243	3923372	4083305
7343 9329	3602682	3764938	3926048	4085960
8344 2060	3605395	3767633	3928723	4088615
9344 4791	3608108	3770327	3931398	4091269
10344 7522	3610821	3773021	3934072	4093923
1134 50253	2730 3613533	3775715	3936746	4096577
1234 52983	3616245	3778409	3939420	4099231
1334 55713	3618957	3781101	3942093	4101884
1434 58442	2729 3621669	3783794	3944766	4104537
1534 61171	3624380	3786486	3947439	4107189
1634 63900	3627091	3789178	3950112	4109841
1734 66629	3629802	3791870	3952784	4112493
1834 69357	3632512	3794562	3955456	4115144
1934 72085	3635222	3797253	3958128	4117795
2034 74813	73637932	3799944	3960799	4120446
2134 77540	3640642	2709 3802635	2690 3963470	2580 4123096
2234 80267	3643351	3805345	3966140	4125746
2334 82994	3646060	3808015	2689 3968810	4128395
2434 85724	3648768	8 3810704	3971480	4131044
2534 88447	63651476	3813393	3974149	2669 4133693
2634 91173	3654184	3816082	3976818	4136341
2734 93899	53656892	7 3818771	3979487	8 4138989
2834 96624	3659599	6 3821459	3982155	4141637
2934 99349	3662306	3824147	3984823	4144284
3034 102075	43665012	3826834	3987491	4146932
69	68	67	66	65

IN CIRCULO RECTARVM LINEARVM.

	20	21	22	23	24		
59	31 3504799	3667718	3829521	3990159	4149579		29
58	32 3507523	3670424	3832208	3992826	4152226	6	28
57	33 3510247	3673130	3834895	3995493	4154872		27
56	34 3512971	3675835	3837581	3998157	4157518	5	26
55	35 3515694	3678541	3840267	4000825	4160163		25
54	36 3518417	3681246	3842953	4003491	4162808		24
53	37 3521140	2 3683951	4 3845638	4006156	4165453	4	23
52	38 3523862	3686655	3848323	4008821	4168097		22
51	39 3526584	3689359	3 3851008	4 4011486	4 4170741		21
50	40 3529306	3692062	3853692	4014150	4173385	3	20
49	41 3532027	3694765	3856376	4016814	4176028		19
48	42 3534748	3697468	2 3859060	3 4019478	3 4178671		18
47	43 3537469	3700170	3861743	4022141	4181313	2	17
46	44 3540190	2720 3702872	3864426	4024804	4183955		16
45	45 3542910	3705574	3867109	2 4027467	4186597		15
44	46 3545630	3708276	1 3869791	4030130	2 4189239	1	14
43	47 3548350	3710977	3872473	4032792	4191880		13
42	48 3551070	3713678	3875155	4035454	1 4194521		12
41	49 3553789	2719 3716379	3877837	1 4038115	4197162	2640	11
40	50 3556508	3719080	2700 3880518	4040776	4199802		10
39	51 3559227	8 3721780	3883195	4043437	2660 4202442		9
38	52 3561945	3724480	3885880	2680 4046097	4205081	2619	8
37	53 3564663	7 3727179	2699 3888560	4048757	2659 4207720		7
36	54 3567380	3729878	3891240	2679 4051416	4210359	8	6
35	55 3570097	3732577	8 3893919	4054075	4212997		5
34	56 3572814	3735275	3896598	4056734	4215635		4
33	57 3575531	6 3737973	3899277	8 4059392	4218273	7	3
32	58 3578247	3740671	3901955	4062050	4220910		2
31	59 3580963	3743369	7 3904633	4064708	4223547	6	1
30	60 3583679	3746066	3907311	4067366	4226183		0
	69	68	67	66	65		

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CANON SVBTENSARVM

25	26	27	28	29
1 4228819	2636 4386326	2614 4542497	2591 4697234	2568 4850640
2 4231455	5 4388940	4 4545038	1 4699852	8 4853184
3 4234090	5 4391554	4 4547679	1 4702415	7 4855727
4 4236725	5 4394167	3 4540270	2590 4704986	7 4858270
5 4239360	5 4397780	3 4552860	0 4707553	7 4800812
6 4241994	4 4399392	2 4555450	0 4710119	6 4863354
7 4244628	4 4402004	2 4558039	2589 4712685	6 4865895
8 4247272	4 4404616	2 4560628	9 4715250	5 4868436
9 4249895	3 4407227	1 4563216	8 4717815	5 4870977
10 4252528	3 4409838	1 4565804	8 4720380	5 4873517
11 4255161	2 4412449	1 4568392	8 4722944	4 4876057
12 4257793	2 4415059	2610 4570979	7 4725508	4 4878596
13 4260425	1 4417669	0 4573566	7 4728071	3 4881135
14 4263056	1 4420278	2609 4576153	7 4730634	3 4883674
15 4265687	1 4422887	9 4578739	6 4733197	3 4886212
16 4268318	1 4425496	9 4581325	6 4735759	2 4888750
17 4270949	2610 4428104	8 4583911	6 4738321	2 4891287
18 4273579	0 4430712	8 4586496	5 4740882	1 4893824
19 4276209	2629 4433320	8 4589081	5 4743443	1 4896361
20 4278838	9 4435927	7 4591665	4 4746004	2560 4898897
21 4281467	9 4438534	7 4594249	4 4748564	0 4901433
22 4274096	9 4441140	6 4596833	4 4751124	2559 4903968
23 4286724	8 4443746	6 4599416	3 4753683	9 4906503
24 4289352	8 4446352	6 4601999	3 4756242	9 4909037
25 4291979	7 4448957	5 4604581	2 4758801	8 4911571
26 4294606	7 4451562	5 4607163	2 4761359	8 4914105
27 4297233	7 4454167	5 4609744	1 4763917	7 4916638
28 4299859	6 4456771	4 4612325	1 4766474	7 4919171
29 4302485	6 4459375	4 4614906	1 4769031	7 4921703
30 4305111	6 4461978	3 4617486	2580 4771588	6 4924235
64	63	62	61	60

IN CIRCVLO RECTARVM LINEARVM.

		25	26	27	28	29		
544	59	31 4307736	5 4464581	3 46210066	0 4774144	6 4926767	1 29	
3	58	32 4310361	5 4457184	3 4622646	0 4776700	5 4929298	1 28	
3	57	33 4312986	5 4469736	2 4625225	2579 4779255	3 4931829	2530 27	
2	56	34 4315610	4 4472389	2 4627804	8 4781810	5 4934359	0 26	
2	55	35 4318234	4 4474990	2 4630382	8 4784365	4 4936889	2529 25	
1	54	36 4320858	4 4477591	1 4632960	8 4786919	4 4939418	9 24	
1	53	37 4323481	3 4480192	1 4635538	7 4789473	3 4941947	9 23	
540	52	38 4326104	3 4482792	2600 4638115	7 4792026	3 4944476	8 22	
9	51	39 4328726	2 4485392	0 4640692	6 4794579	3 4947004	8 21	
0	50	40 4331348	2 4487992	0 4643268	6 4797132	2 4949532	7 20	
539	49	41 4333970	2 4490591	2599 4645844	6 4799684	2 4952059	7 19	
9	48	42 4336591	1 4493190	9 4648420	5 4802236	1 4954586	7 18	
9	47	43 4339212	1 4495788	8 4650995	5 4804787	1 4957113	6 17	
8	46	44 4341833	1 4498386	8 4653570	5 4807338	2550 4959639	6 16	
8	45	45 4344453	2620 4500984	8 4656145	4 4809888	0 4962165	5 15	
7	44	46 4347073	0 4503582	8 4658719	4 4812438	0 4964690	5 14	
7	43	47 4349693	0 4506179	7 4661293	3 4814988	2549 4967215	5 13	
7	42	48 4352312	2619 4508776	7 4663866	3 4817537	9 4969740	4 12	
6	41	49 4354931	9 4511372	6 4666439	3 4820086	9 4972264	4 11	
5	40	50 4357549	8 4513968	6 4669012	2 4822635	8 4974788	3 10	
5	39	51 4360167	18 4516563	5 4671584	2 4825183	8 4977311	3 9	
5	38	52 4362785	8 4519158	5 4674150	1 4827731	7 4979834	2 8	
4	37	53 4365402	7 4521753	5 4676727	1 4830278	7 4982356	2 7	
4	36	54 4368019	7 4524347	4 4679298	1 4832825	6 4984878	1 6	
4	35	55 4370635	6 4526941	4 4671869	2570 4835371	6 4987399	1 5	
3	34	56 4373251	6 4529535	4 4684439	0 4837917	5 4989920	1 4	
3	33	57 4375867	6 4532128	3 4687009	0 4840462	5 4992441	2520 3	
2	32	58 4378482	5 4534721	3 4689578	2569 4843007	5 4994961	0 2	
2	31	59 4381097	5 4537313	2 4692147	9 4845552	4 4997481	2519 1	
2	30	60 4383712	5 4539905	2 4694716	9 4848096	4 5000000	9 0	
		64	63	62	61	60		

CANON SVBTENSARVM

	30		31		32		33		34		
1	5002519	2519	5152874	2493	5301659	2466	5448829	2439	5594340	2411	59
2	5005038	8	5155367	2	5304125	6	5451263	9	5596751	2410	58
3	5007556	8	5157859	2	5306591	5	5453707	8	5599161	0	57
4	5010074	7	5160351	2	5309056	5	5456145	8	5601571	0	56
5	5012591	7	5162843	1	5311521	4	5458583	7	5603981	2409	55
6	5015108	6	5165334	1	5313985	4	5461020	6	5606392	8	54
7	5017624	6	5167825	2490	5316449	4	5463456	6	5608798	8	53
8	5020190	6	5170315	0	5318913	3	5465802	6	5611206	7	52
9	5022650	5	5172805	2489	5321376	3	5468328	5	5613614	8	51
10	5025171	5	5175294	9	5323839	2	5470763	5	5616021	6	50
11	5027686	4	5177783	8	5326301	2	5473198	4	5618427	6	49
12	5030200	4	5180271	8	5328763	1	5475632	4	5620833	6	48
13	5032714	3	5182759	7	5331224	1	5478066	3	5623239	5	47
14	5035227	3	5185246	7	5333685	2450	5480499	3	5625644	5	46
15	5037740	3	5187733	7	5336145	0	5482932	2	5628049	4	45
16	5040253	2	5190220	6	5338605	0	5485364	2	5630453	4	44
17	5042765	2	5192706	6	5341065	2459	5487796	2	5632857	3	43
18	5045277	1	5195192	5	5343524	9	5490228	1	5635260	3	42
19	5047788	1	5197667	5	5345985	8	5492659	1	5637663	3	41
20	5050299	2510	5200162	4	5348441	8	5495090	2410	5640066	2	40
21	5052809	0	5202646	4	5350898	7	5497520	0	5642468	1	39
22	5055319	0	5205130	4	5353355	7	5499950	2429	5644869	1	38
23	5057829	2509	5207614	3	5355812	6	5502379	9	5647270	2400	37
24	5060338	9	5210097	3	5358268	6	5504808	8	5649670	0	36
25	5062847	8	5212580	2	5360724	5	5507236	8	5652070	2399	35
26	5065355	8	5215062	2	5363179	5	5509664	7	5654469	9	34
27	5067863	7	5217544	1	5365634	4	5512091	7	5656868	8	33
28	5070370	7	5220025	1	5368088	4	5514518	6	5659266	8	32
29	5072877	7	5222506	2480	5370542	4	5516944	6	5661664	8	31
30	5075384	6	5224986	0	5372996	3	5519370	5	5664062	7	30
	56		58		57		56		55		

IN CIRCVLO RECTARVM LINEARVM.

	30	31	32	33	34		
11 59	31 5077890	6 227466	0 375449	3 5521795	5 666459	7 29	
10 58	32 5080396	5 229946	2479 377902	2 5524220	5 668856	6 28	
0 57	33 5082901	5 232425	9 380354	2 5526645	4 671252	9 27	
0 56	34 5085406	5 234904	8 382806	2 5529069	4 673648	5 26	
9 55	35 5087911	4 237382	8 385258	1 5531491	3 676043	5 25	
8 54	36 5090415	4 239860	7 387709	2450 5533916	2 678438	4 24	
8 53	37 5092919	3 242337	7 390159	0 5536338	2 680832	4 23	
7 52	38 5095422	3 244614	6 392609	2449 5538760	2 683226	3 22	
6 51	39 5097925	2 247290	6 395058	9 5541182	1 685619	3 21	
6 50	40 5100427	2 249766	5 397507	8 5543603	1 688012	2 20	
6 49	41 5102929	1 252241	5 399855	8 5546024	2420 690404	2 19	
6 48	42 5105430	1 254716	5 402403	8 5548444	0 692796	1 18	
5 47	43 5107931	2500 257191	4 404851	7 5550864	2419 695187	1 17	
4 46	44 5110431	0 259665	4 407298	7 5553283	9 697578	2390 16	
4 45	45 5112931	0 262139	3 409745	6 5555702	8 699968	0 15	
4 44	46 5115431	2499 264612	3 412191	6 5558120	8 702358	2389 14	
3 43	47 5117930	9 267085	2 415637	5 5560538	8 704747	9 13	
3 42	48 5120429	8 269557	2 417082	5 5562956	7 707136	8 12	
3 41	49 5122927	8 272029	2 419527	5 5565373	7 709524	8 11	
2 40	50 5125425	7 274501	1 421972	4 5567790	6 711912	7 10	
1 39	51 5127922	7 276972	1 424416	3 5570206	6 714269	7 9	
1 38	52 5130419	7 279443	2476 426859	3 5572622	5 716686	6 8	
0 37	53 5132916	6 281913	2469 429302	3 5575037	5 719072	6 7	
0 36	54 5135412	6 284383	43 431745	2 5577452	4 721458	6 6	
99 35	55 5137908	5 286852	9 434187	2 5579866	4 723844	5 5	
9 34	56 5140403	5 299321	9 436629	1 5582280	3 726229	4 4	
8 33	57 5142898	5 291789	8 439070	2440 5594693	3 728613	4 3	
8 32	58 5145393	4 294257	8 441510	0 5597106	2 730997	4 2	
8 31	59 5147887	4 296725	7 443950	0 5599518	1 733381	3 1	
7 30	60 5150381	3 299192	7 446390	2439 5601929	1 735764	3 0	
	59	58	57	56	55		

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CANON SVBTENSARVM

35		36		37		3		59	
1 738147	2382	880205	2333	6010474	2323	6158907	2291	6295464	2160
2 740529	2	882558	2	6022796	2	6161198	1	6297724	2159
3 742911	1	884910	2	6025118	1	6163489	1	6299983	9
4 745292	2380	887262	1	6027439	1	6165780	2290	6302242	9
5 747672	0	889613	1	6029760	2320	6168070	2189	6304501	8
6 750052	0	891964	2350	6032080	0	6170259	9	6306759	8
7 752432	2375	894314	0	6034400	2319	6172648	8	6309016	7
8 754811	9	896664	2349	6036719	9	6174936	8	6311273	6
9 757190	8	899013	8	6039038	9	6177224	8	6313529	5
10 759568	8	901361	8	6041357	8	6179512	7	6315784	5
11 761946	7	903709	7	6043675	7	6181799	6	6318039	4
12 764323	7	906056	7	6045992	7	6184085	6	6320293	4
13 766700	6	908403	7	6048309	6	6186371	5	6322547	3
14 769076	6	910750	9	6050625	5	6188656	4	6324800	3
15 771452	5	913096	9	6052940	5	6190940	4	6327053	2
16 773827	5	915442	5	6055255	5	6193224	4	6329305	2
17 776202	4	917787	5	6057570	4	6195508	3	6331557	1
18 778576	4	920132	4	6059884	4	6197791	3	6333808	1
19 780950	4	922476	4	6062198	3	6200074	2	6336059	1
20 783324	3	924820	3	6064511	3	6202356	2	6338310	2250
21 785697	2	927163	2	6066824	2	6204638	1	6340560	2249
22 788069	2	929505	2	6069136	2	6206919	2230	6342809	9
23 790441	1	931847	2	6071448	1	6209199	0	6345058	8
24 792812	1	934189	1	6073759	2310	6211479	2279	6347306	7
25 795183	2379	936530	1	6076069	0	6213758	9	6349553	7
26 797553	0	938871	2340	6078379	2309	6216037	8	6351800	6
27 799923	2369	941211	0	6080688	9	6218315	8	6354046	6
28 802292	9	943551	319	6082997	9	6220593	7	6356292	5
29 804661	9	945890	8	6085306	8	6222870	6	6358537	5
30 807030	8	948228	8	6087614	8	6225146	6	6360782	4
54		53		52		51		50	

IN CIRCULO RECTARVM LINEARVM

		35		36		37		38		39			
50	59	31	5809398	8	5950566	8	6089922	7	5227422	6	6363026	4	29
59	58	32	5811766	7	5952904	7	6092229	7	6229695	5	6365270	3	18
9	57	33	5814133	6	5955241	7	6094536	6	6231973	5	6367513	3	27
9	56	34	5816499	6	5957578	6	6096842	5	6234248	4	6369756	3	26
8	55	35	5818865	5	5959914	6	6099147	5	6236522	4	6371999	2	25
8	54	36	5821230	5	5962250	5	6091452	4	6238796	3	6374241	1	24
7	53	37	5823595	4	5964585	4	6103756	4	6241069	3	6376482	2240	23
6	52	38	5825959	4	5966919	4	6106060	4	6243342	2	6378722	0	22
5	51	39	5828323	4	5969253	3	6108364	3	6245614	1	6380962	2239	21
5	50	40	5830687	3	5971586	3	6110667	3	6247885	1	6383201	9	20
4	49	41	5833050	2	5973919	2	6112970	2	6250156	2270	6385440	8	19
4	48	42	5835412	2	5976251	2	6115272	1	6252426	0	6387678	8	18
3	47	43	5837774	2	5978583	26117573	2300	6254696	0	6389916	7	17	
3	46	44	5840136	1	5980915	16119873	0	6256966	2269	6392153	7	16	
2	45	45	5842497	1	5983246	16122173	0	6259235	8	6394390	6	15	
2	44	46	5844858	2360	5985577	22306124473	2299	6261503	8	6396626	6	14	
1	43	47	5847218	0	5987907	06126772	9	6263771	7	6398862	5	13	
1	42	48	5849578	2359	5990237	23296129071	8	6266038	7	6401097	5	12	
1	41	49	5851937	8	5992566	86131369	8	6268305	7	6403332	4	11	
50	40	50	5854295	8	5994894	86133667	7	6270572	6	6405566	3	10	
49	39	51	5856653	7	5997222	76135964	7	6272838	5	6407799	3	9	
9	38	52	5859010	7	5999549	76138261	6	6275103	5	6410032	2	8	
8	37	53	5861367	7	6001876	66140557	6	6277368	4	6412264	2	7	
7	36	54	5863724	6	6004202	66143853	5	6279632	3	6414496	2	6	
7	35	55	5866080	6	6006528	56145148	4	6281895	3	6416728	1	5	
6	34	56	5868436	5	6008853	56147442	4	6284158	2	6418959	2230	4	
6	33	57	5870791	4	6011178	46149746	4	6286420	2	6421185	0	3	
5	32	58	5873145	4	6013502	46152030	3	6288682	1	6423419	2229	2	
5	31	59	5875499	3	6015826	46154323	2	6290943	1	6425648	8	1	
4	30	60	5877852	3	6018150	36156615	2	6293204	0	6427876	8	0	
		54		53		52		51		50			

CANON SVBTENSARVM

	40		41		42		43		44		
1	6430104		6562783	2194	6693468	1	6822111	2126	6948676	1	59
2	6432331	2227	6564978	7	6693625	2160	6824237	6	6950767	1	58
3	6434558	7	6567173	4	6697782	0	6826363	6	6952858	1	57
4	6436785		6569367	3	6699949	2159	6828489	5	6954949	2090	56
5	6439011	6	6571560	3	6702108	9	6830614	4	6957039	2089	55
6	6441236	5	6573753	2	6704267	8	6832738	3	6959128	8	54
7	6443461		6575945	1	6706425	7	6834861	3	6961216	8	53
8	6445685	4	6578136	2190	6708582	7	6836984	3	6963304	8	52
9	6447909	3	6580326	0	6710739	6	6839107	2	6965392	7	51
10	6450132		6582516	2189	6712895	6	6841229	1	6967479	6	50
11	6452355	3	6584703	9	6715051	5	6843350	1	6969565	6	49
12	6454577	2	6586894	8	6717206	5	6845471	2120	6971651	5	48
13	6456799		6589082	8	6719361	4	6847591	0	6973736	5	47
14	6459020	2220	6591270	8	6721515	3	6849711	2119	6975821	4	46
15	6461240	0	6593458	7	6723668	3	6851830	9	6977905	3	45
16	6463460		6595645	6	6725821	2	6853949	8	6979988	3	44
17	6465679	2219	6597831	5	6727973	2	6856067	7	6982071	2	43
18	6467898	9	6600016	5	6730125	1	6858184	7	6984153	2	42
19	6470116		6602201	5	6732276	1	6860301	6	6986235	1	41
20	6472333	7	6604386	4	6734427	2150	6862417	6	6988316	2080	40
21	6474550	6	6606570	3	6736577	2149	6864533	5	6990396	0	39
22	6476766		6608753	3	6738726	9	6866648	4	6992476	2079	38
23	6478982	6	6610936	2	6740875	9	6868762	4	6994555	9	37
24	6481198	5	6613118	2	6743024	8	6870876	3	6996634	8	36
25	6483413		6615300	1	6745172	7	6872989	3	6998712	7	35
26	6485628	5	6617481	2180	6747319	6	6875102	2	7000785	7	34
27	6487842	3	6619661	0	6749465	6	6877214	1	7002866	6	33
28	6490055		6621841	0	6751611	6	6879325	1	7004942	6	32
29	6492268	3	6624021	2179	6753757	5	6881436	2110	7007018	5	31
30	6494480	2	6626200	9	6755902	5	6883546	0	7009093	4	30
	49		48		47		46		45		

IN CIRCULO RECTARVM LINEARVM.

	40		41		42		43		44		
59	6496692	1	5628379	8	6758047	4	6885656	2109	7011167	4	29
58	6498903	1	5630557	7	6760191	3	6887765	9	7013241	3	28
57	6501114	2210	5632734	7	6762334	3	6888974	8	7015314	3	27
56	6503324	2209	5634911	6	6764477	2	6891982	7	7017387	2	26
55	6505533	9	5637087	6	6766619	1	6894089	7	7019459	1	25
54	6507742	8	5639263	5	6768760	1	6896196	6	7021530	1	24
53	6509950	8	5641438	4	6770901	2140	6898302	6	7023601	2070	23
52	6512158	7	5643612	4	6773041	0	6900408	5	7025671	0	22
51	6514365	7	5645786	3	6775181	2139	6902513	4	7027741	2069	21
50	6516572	6	5647959	3	6777320	9	6904617	4	7029810	9	20
49	6518778	6	5650132	2	6779459	8	6906721	3	7031879	8	19
48	6520984	5	5652304	2	6781597	7	6908824	3	7033947	7	18
47	6523189	5	5654476	1	6783734	7	6910927	2	7036014	7	17
46	6525394	4	5656647	2170	6785871	6	6913029	2	7038081	6	16
45	6527598	3	5658817	0	6788007	6	6915131	1	7040147	6	15
44	6529801	3	5660987	2169	6790143	5	6917232	2100	7042213	5	14
43	6532004	2	5663156	9	6792278	5	6919332	0	7044278	4	13
42	6534206	2	5665325	8	6794413	4	6921432	2099	7046342	4	12
41	6536408	1	5667493	8	6796547	4	6923531	9	7048406	3	11
40	6538609	2200	5669661	7	6798681	3	6925630	8	7050469	3	10
39	6540809	0	5671828	6	6800814	2	6927728	7	7052532	2	9
38	6543009	2199	5673994	6	6802946	2	6929825	7	7054594	1	8
37	6545208	2	5676160	6	6805078	1	6931922	6	7056655	1	7
36	6547407	5	5678326	5	6807209	1	6934018	6	7058718	2060	6
35	6549606	8	5680491	4	6809340	2130	6936114	5	7060776	0	5
34	6551804	7	5682655	3	6811470	2129	6938209	4	7062836	2059	4
33	6554001	7	5684818	3	6813599	9	6940303	4	7064895	3	3
32	6556198	6	5686981	3	6815728	8	6942397	4	7066953	8	2
31	6558394	6	5689144	2	6817856	8	6944491	3	7069011	7	1
30	6560590	5	5691306	2	6819984	7	6946584	2	7071068	7	0
	49		48		47		46		45		

CANON SVBTENSARVM

45		46		47		48		49	
1 7073125	2037	7195418	2020	7315521	3	7433394	5	7549004	7
2 7075181	7	7197438	2059	7317504	2	7435335	5	7550911	7
3 7077236	6	7199457	9	7319486	2	7437284	5	7552818	6
4 7079291	5	7201476	8	7321468	1	7439225	4	7554724	6
5 7081345	4	7203494	7	7323449	1980	7441173	3	7556630	5
6 7083399	3	7205511	6	7325429	0	7443116	2	7558537	4
7 7085452	2	7207527	6	7327405	1979	7445058	2	7560439	4
8 7087504	2	7209543	6	7329388	9	7447000	1	7562343	3
9 7089556	1	7211559	5	7331367	8	7448941	1	7564246	2
10 7091607	1	7213574	4	7333345	7	7450882	1940	7566148	2
11 7093658	2050	7215588	3	7335322	6	7452822	1939	7568050	1
12 7095708	2049	7217601	3	7337298	6	7454761	8	7569951	1900
13 7097757	9	7219614	3	7339274	6	7456699	8	7571851	0
14 7099806	8	7221627	2	7341250	5	7458637	7	7573751	1899
15 7101854	8	7223639	2	7343225	4	7460574	7	7575650	8
16 7103902	7	7225651	1	7345199	4	7462511	6	7577548	8
17 7105949	6	7227662	2010	7347173	3	7464447	5	7579446	7
18 7107995	6	7229672	2009	7349146	2	7466382	5	7581343	7
19 7110041	5	7231681	8	7351118	2	7468317	4	7583240	6
20 7112086	5	7233689	8	7353090	1	7470251	3	7585136	5
21 7114131	4	7235697	7	7355061	0	7472184	3	7587031	4
22 7116175	3	7237704	7	7357031	1970	7474117	2	7588925	4
23 7118218	3	7239711	7	7359001	1969	7476049	2	7590819	4
24 7120261	2	7241718	6	7360970	9	7477981	1	7592713	3
25 7122303	1	7243724	5	7362939	8	7479912	1930	7594606	2
26 7124344	1	7245729	4	7364907	7	7481842	1929	7596498	1
27 7126385	2040	7247733	4	7366874	7	7483771	9	7598389	1
28 7128425	0	7249737	4	7368841	6	7485700	9	7600280	0
29 7130465	2039	7251741	3	7370807	6	7487629	3	7602170	1890
30 7132504	9	7253744	2	7372773	5	7489557	7	7604060	1889
44		43		42		41		40	

IN CIRCULO RECTARVM LINEARVM.

	45		46		47		48		49		
31	7134543	2033	7255746		17374738		47491484		67605949		829
32	7136581	7	7257747		17376702		47493410		67607837		828
33	7138618	7	7259748		17378666		37495336		67609725		727
34	7140655	6	7261749	2000	7380629		37497262		57611612		626
35	7142691	6	7263749	1999	7382592		27499187		47613498		625
36	7144727	5	7265749	8	7384554		17501111		37615384		524
37	7146762	4	7267746	8	7386555	1960	7503034		37617269		423
38	7148796	4	7269744	7	7388475	0	7504957		27619153		422
39	7150830	3	7271741	6	7390435	1959	7506879		27621037		321
40	7152863	2	7273737	6	7392394		97508801		17622920		220
41	7154895	2	7275733	5	7394353		87510722	1920	7624802		119
42	7156927	1	7277728	4	7396311		77512642	1919	7626683		118
43	7158958	1	7279722	4	7398268		77514561		97628564		117
44	7160989	0	7281716	4	7400225		67516480		87630445	1880	116
45	7163019	2030	7283710	3	7402181		67518398		87632325	1879	115
46	7165049	2029	7285703	2	7404137		57520316		77634204		814
47	7167078	8	7287695	2	7406092		47522233		67636082		813
48	7169106	8	7289687	1	7408046		47524149		67637960		812
49	7171134	7	7291678	1990	7410000	3	7526065		57639838		711
50	7173161	6	7293668	0	7411953	2	7527980		47641715		610
51	7175187	6	7295658	1989	7413905	1	7529894		47643591		59
52	7177213	5	7297647	8	7415856	1	7531808		37645466		58
53	7179238	5	7299635	8	7417807	1	7533721		37647341		47
54	7181263	4	7301623	7	7419758	1950	7535634		27649215		36
55	7183287	3	7303610	7	7421709	1949	7537546		17651088		35
56	7185310	3	7305597	6	7423657		7539457		07652961		24
57	7187333	2	7307583	5	7425605	8	7541367		07654833		13
58	7189355	2	7309568	5	7427553	8	7543277	1910	7656704		12
59	7191377	1	7311553	4	7429501	7	7545187	1909	7658575	1870	11
60	7193398	0	7313537	4	7431448	8	7547076		87660445	1869	0
	44		43		42		41		40		

CANON SVBTENSARVM

	50		51		52		53		54		
1	7662314	1859	7773290	1810	7881899	1790	7988105	1759	8091879	8	59
2	7664133	3	7775120	1829	7883638	1789	7989855	1749	8093588	8	58
3	7666051	8	7776949	3	7885477	9	7991604	8	8095296	8	57
4	7667919	7	7778777	8	7887266	8	7993352	8	8097004	7	56
5	7669736	6	7780605	7	7889054	7	7995100	7	8098711	6	55
6	7671652	5	7782432	6	7890841	6	7996847	6	8100417	5	54
7	7673517	5	7784258	6	7892627	6	7998593	6	8102122	5	53
8	7675382	4	7786084	5	7894413	5	8000339	5	8104827	4	52
9	7677246	4	7787909	4	7896198	5	8002084	4	8106531	3	51
10	7679110	3	7789733	4	7897983	4	8003828	3	8108234	2	50
11	7680973	2	7791557	3	7899767	3	8005571	3	8110893	6	49
12	7682835	2	7793380	2	7901550	2	8007314	2	8112638	1	48
13	7684687	1	7795202	2	7903332	2	8009056	1	8114339	1	47
14	7686558	1860	7797024	1	7905114	1	8010797	1	8116040	1700	46
15	7688418	0	7798845	1820	7906895	1	8012538	1740	8117740	1699	45
16	7690278	1859	7800665	0	7908676	1780	8014278	1739	8119439	8	44
17	7692137	9	7802485	1819	7910456	1779	8016017	9	8121137	8	43
18	7693995	8	7804304	9	7912235	9	8017756	8	8122835	7	42
19	7695853	8	7806123	8	7914014	8	8019494	8	8124532	7	41
20	7697710	7	7807941	7	7915792	7	8021232	7	8126229	6	40
21	7699566	6	7809758	6	7917569	6	8022969	6	8127925	5	39
22	7701422	5	7811574	6	7919345	6	8024705	5	8129620	4	38
23	7703277	5	7813390	5	7921121	5	8026440	5	8131314	4	37
24	7705132	4	7815205	5	7922896	5	8028175	4	8133008	3	36
25	7706986	3	7817020	4	7924671	4	8029909	3	8134701	2	35
26	7708839	3	7818834	3	7926445	3	8031642	3	8136393	1	34
27	7710692	2	7820647	2	7928218	2	8033375	2	8138084	1	33
28	7712544	1	7822459	2	7929990	2	8035107	1	8139775	1690	32
29	7714395	1	7824271	1	7931762	1	8036838	1	8141465	0	31
30	7716246	1850	7826082	1810	7933533	1770	8038569	1730	8143155	1689	30
	39		38		37		36		35		

IN CIRCVLO RECTARVM LINEARVM

	50		51		52		53		54		
31	7718096	1849	7827892	1810	7935303	1770	8040299	1729	8142844	8	29
32	7719945	9	7829762	1809	7937073	1769	8042028	9	8144532	8	28
33	7721794	8	7831511	9	7938842	8	8043757	8	8146220	7	27
34	7723642	8	7833330	8	7940611	8	8045485	7	8147907	6	26
35	7725490	7	7835128	7	7942375	7	8047212	6	8149593	5	25
36	7727337	6	7836935	6	7944146	6	8048938	6	8151278	5	24
37	7729183	5	7838741	6	7945912	6	8050664	5	8152963	4	23
38	7731028	4	7840547	5	7947678	5	8052389	5	8154647	3	22
39	7732872	4	7842352	5	7949443	5	8054114	4	8156330	3	21
40	7734716	3	7844157	4	7951208	4	8055839	3	8158013	2	20
41	7736559	3	7845961	3	7952972	3	8057561	2	8159695	1	19
42	7738402	2	7847764	2	7954735	2	8059283	2	8161376	1	18
43	7740244	1	7849566	2	7956497	2	8061005	1	8163057	1680	17
44	7742085	1	7851368	1	7958259	1	8062726	1720	8164737	1679	16
45	7743926	1840	7853169	1	7960020	0	8064446	0	8166416	8	15
46	7745766	0	7854970	1800	7961780	1760	8066166	1719	8168094	8	14
47	7747606	1839	7856770	1799	7963540	1759	8067885	8	8169772	7	13
48	7749445	8	7858569	9	7965299	8	8069603	8	8171449	7	12
49	7751283	8	7860368	8	7967057	8	8071321	7	8173126	5	11
50	7753121	7	7862166	7	7968815	7	8073038	6	8174802	5	10
51	7754958	6	7863963	6	7970572	6	8074754	6	8176477	4	9
52	7756794	6	7865759	6	7972328	6	8076470	5	8178151	4	8
53	7758630	5	7867555	5	7974084	4	8078185	4	8179825	3	7
54	7760465	4	7869350	5	7975838	5	8079899	4	8181498	2	6
55	7762299	3	7871145	4	7977593	4	8081613	3	8183170	1	5
56	7764132	3	7872939	3	7979347	3	8083326	2	8184841	1	4
57	7765965	2	7874732	3	7981100	2	8085038	1	8186512	1670	3
58	7767797	2	7876525	2	7982852	2	8086749	1	8188182	1669	2
59	7769629	1	7878317	1	7984604	1	8088460	1710	8189851	5	1
60	7771460	1830	7880108	1790	7986355	1750	8090170	1709	8191520	8	0
	39		38		37		36		35		

CANON SVBTENSARVM

	55		56		57		58		59				
1	3193188	1667	3292002		6	3388290		3	3482022	1540	3731771	7	59
2	3194355	7	3293623		5	3389873		3	3483562	0	374668	6	58
3	3196522	6	3295253		4	3391456		2	3485102	1539	376164	6	57
4	3198188	6	3296877		4	3393038		1	3486641	5	377760	5	56
5	3199854	5	3298501		3	3394619	1580	1488180	8	379155	4	55	
6	3201519	4	3300127		2	3396199	1579	3489718	7	380649	3	54	
7	3203183	3	3301746		1	3397778		9	3491255	7	3821442	3	53
8	3204846	2	3303367	1620	8	3399357		8	3492791	5	383635	2	52
9	3206508	2	3304987		0	3400935		8	3494326	4	385127	2	51
10	3208170	1	3306607	1615	8	3402513	7	3495860	4	386619	1	50	
11	3209831	1650	3308226		8	3404090	6	3497394	3	388110	1490	49	
12	3211491	0	3309844		8	3405666	5	3498927	2	389600	1489	48	
13	3213151	1559	3311462		7	3407241		5	3500459	2	391089	8	47
14	3214810	9	3313079		7	3418316	4	3501991	1	392577	7	46	
15	3216469	8	3314696		8	3410390	3	3503522	1530	394064	7	45	
16	3219127	7	3316312		5	3411963	3	3505052	0	395551	6	44	
17	3219784	6	3317927		4	3413536	2	3506582	1529	397037	6	43	
18	3221440	6	3319541		4	3415108	1	3508111	8	398523	5	42	
19	3223096	5	3321155		3	3416679	1	3509639	8	3500008	4	41	
20	3224751	4	3322768		2	3418250	1570	3511167	7	3601492	3	40	
21	3226405	3	3324380		1	3419820	1569	3512694	6	3602975	2	39	
22	3228058	3	3325991		1	3421389	8	3514220	5	3604457	2	38	
23	3229711	2	3327602	1610	8	3422957	8	3515745	5	3605939	1	37	
24	3231363	2	3329212		0	3424525	7	3517270	4	3607420	1	36	
25	3233015	1	3330822	1609	8	3426092	6	3518794	3	3608901	1480	35	
26	3234666	1650	3332431		8	3427655	5	3520317	2	3610381	1479	34	
27	3236316	1649	3334039		7	3429223	5	3521839	2	3611860	8	33	
28	3237965	9	3335646		6	3430788	4	3523361	1	3613338	7	32	
29	3239614	8	3337252		6	3432352	3	3524882	1520	3614815	7	31	
30	3241262	7	3338858		5	3433915	3	3526402	1519	3616292	6	30	
	34		33		32		31		30				

IN CIRCULO RECTARVM LINEARVM.

	55		56		57		58		59		
59	31 8242909	7	8340463	4	8435477	2	8527921	1519	8617768	1475	29
58	32 8244556	6	8342067	4	8437039	1	8529440	8	8619243	5	28
57	33 8246202	5	8343671	3	8438609	1	8530958	8	8620718	4	27
56	34 8247847	5	8345274	3	8440161	1560	8532476	7	8622192	3	26
55	35 8249492	4	8346877	2	8441721	1519	8533993	6	8623665	2	25
54	36 8251136	3	8348479	1	8443280	8	8535509	5	8625137	1	24
53	37 8252779	2	8350080	1600	8444838	8	8537024	4	8626608	1	23
52	38 8254421	1	8351680	9	8446396	7	8538538	4	8628079	1470	22
51	39 8256062	1	8353279	1599	8447953	6	8540052	3	8629549	0	21
50	40 8257703	1640	8354878	8	8449509	5	8541565	2	8631019	1469	20
49	41 8259343	1639	8356476	7	8451064	4	8543077	1	8632481	8	19
48	42 8260982	9	8358073	7	8452618	4	8544588	1	8633956	7	18
47	43 8262621	8	8359670	6	8454172	3	8546099	0	8635423	6	17
46	44 8264259	8	8361266	6	8455725	3	8547609	1510	8636889	6	16
45	45 8265897	7	8362862	5	8457278	2	8549119	1509	8638355	5	15
44	46 8267534	6	8364457	4	8458830	1	8550628	8	8639820	4	14
43	47 8269170	6	8366051	3	8460381	1850	8552136	7	8641284	4	13
42	48 8270806	5	8367644	2	8461932	1550	8553643	6	8642748	3	12
41	49 8272441	4	8369236	2	8463482	1549	8555149	6	8644211	2	11
40	50 8274075	3	8370828	1	8465031	8	8556655	5	8645673	1	10
39	51 8275708	2	8372419	1590	8466579	7	8558160	4	8647134	1	9
38	52 8277340	2	8374009	0	8468126	7	8559664	4	8648595	1460	8
37	53 8278972	1	8375599	1589	8469673	6	8561168	3	8650055	1459	7
36	54 8280603	1	8377185	8	8471219	6	8562671	2	8651514	9	6
35	55 8282234	1610	8378756	7	8472765	5	8564173	2	8652973	8	5
34	56 8283864	1629	8380363	7	8474310	4	8565675	1	8654431	7	4
33	57 8285493	8	8381950	6	8475854	3	8567176	1500	8655888	6	3
32	58 8287121	8	8383536	5	8477297	2	8568676	1499	8657344	5	2
31	59 8288749	7	8385121	5	8478939	2	8570175	8	8658799	5	1
30	60 8290376	6	8386706	4	8480481	1	8571673	8	8660254	4	0
	34		33		32		31		30		

CANON SVBTENSARVM

	60		61		62		63		64		
1	8661708	1414	8747607	1409	8830841	4	8911385	1319	8985215	4	59
2	8663162	3	8749016	9	8832205	4	8912704	9	8990489	3	58
3	8664615	2	8750425	8	8833569	3	8914023	8	8991762	3	57
4	8666067	1	8751833	7	8834932	3	8915341	8	8993035	2	56
5	8667518	1450	8753240	6	8836295	2	8916659	7	8994307	1	55
6	8668968	1449	8754646	5	8837657	1	8917976	7	8995578	1270	54
7	8670417	9	8756051	5	8839018	1360	8919292	5	8996848	1269	53
8	8671866	8	8757456	4	8840378	1359	8920607	4	8998117	9	52
9	8673314	8	8758860	3	8841737	8	8921921	3	8999386	8	51
10	8674762	7	8760263	2	8843095	7	8923234	2	9000654	7	50
11	8676209	6	8761665	2	8844452	7	8924546	2	9001921	6	49
12	8677655	5	8763067	1	8845809	6	8925858	1	9003187	6	48
13	8679100	4	8764468	1400	8847165	6	8927169	1310	9004453	5	47
14	8680544	4	8765868	0	8848521	5	8928479	0	9005718	4	46
15	8681988	3	8767268	1359	8849876	4	8929789	1309	9006982	3	45
16	8683431	3	8768667	8	8851230	3	8931098	8	9008245	3	44
17	8684874	2	8770065	7	8852583	3	8932406	8	9009508	2	43
18	8686316	1	8771462	7	8853936	2	8933714	7	9010770	1	42
19	8687757	1440	8772859	6	8855288	1	8935021	6	9012031	1	41
20	8689197	1439	8774255	5	8856638	1350	8936327	5	9013292	1260	40
21	8690636	8	8775650	4	8857989	1349	8937632	4	9014552	1259	39
22	8692074	8	8777044	3	8859338	9	8938936	4	9015811	8	38
23	8693512	7	8778437	3	8860687	8	8940240	3	9017069	7	37
24	8694949	7	8789830	2	8862035	8	8941543	2	9018326	8	36
25	8696386	6	8781222	1	8863383	7	8942845	1	9019584	6	35
26	8697822	5	8782613	1390	8864730	6	8944146	1300	9020838	5	34
27	8699257	4	8784003	0	8866076	5	8945446	0	9022093	4	33
28	8700691	3	8785393	1389	8867421	4	8946746	1299	9023347	3	32
29	8702124	3	8786782	9	8868765	3	8948045	9	9024600	3	31
30	8703557	2	8788171	8	8870108	3	8949344	8	9025853	2	30
	29		28		27		26		25		

IN CIRCULO RECTARVM LINEARVM.

	60		61		62		63		64		
31	8704989	1	8789559	7	8871451	2	8950642	7	9027105	1	29
32	8706420	1	8790946	6	8872793	1	8951939	6	9028356	1250	28
33	8707851	1430	8792332	5	8874134	1	8953235	5	9029606	0	27
34	8709281	1435	8793717	5	8875475	1340	8954530	4	9030856	1249	26
35	8710710	8	8795102	4	8876815	1339	8955824	3	9032105	8	25
36	8712138	7	8796486	3	8878154	8	8957117	3	9033353	7	24
37	8713565	7	8787869	2	8879492	8	8958410	2	9034600	7	23
38	8714992	6	8799251	2	8880830	7	8959702	2	9035847	6	22
39	8716418	6	8800633	1	8882167	6	8960994	1	9037093	5	21
40	8717844	5	8802014	1380	8883503	5	8962285	1290	9038338	4	20
41	8719269	4	8803394	1379	8884838	4	8963575	1280	9039582	3	19
42	8720693	3	8804773	8	8886172	4	8964864	8	9040825	3	18
43	8722116	2	8806152	8	8887506	3	8966152	8	9042068	2	17
44	8723538	2	8807530	7	8888839	2	8967440	7	9043310	1	16
45	8724960	1	8808907	6	8890171	1	8968727	6	9044551	1240	15
46	8726381	1420	8810283	6	8891502	1	8969013	6	9045791	0	14
47	8727801	0	8811659	5	8892833	1330	8971299	5	9047031	1239	13
48	8729221	1419	8813034	4	8894163	1329	8972584	4	9048270	8	12
49	8730640	8	8814408	3	8895492	9	8973868	3	9049508	8	11
50	8732058	7	8815783	2	8896821	8	8975151	2	9050746	7	10
51	8733475	6	8817155	2	8898149	7	8976433	2	9051983	6	9
52	8734891	6	8818527	1	8899476	6	8977715	1	9053219	5	8
53	8736307	5	8819898	1370	8900802	5	8978996	1280	9054454	4	7
54	8737722	5	8821268	0	8902127	5	8980276	1279	9055688	4	6
55	8739137	4	8822638	1369	8903452	4	8981555	8	9056922	3	5
56	8740551	3	8824007	8	8904776	3	8982833	8	9058155	2	4
57	8741964	2	8825375	8	8906099	3	8984111	7	9059387	1	3
58	8743376	1	8826743	7890	7422	2	8985388	6906	0618	1230	2
59	8744787	1410	8828110	6	8908744	1	8986664	6	9061898	0	1
60	8746197	0	8829476	5	8910065	1320	8987940	5	9063078	1229	0
	29		28		27		26		25		

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CANON SVBTENSARVM

	65		66		67		68		69		
1	9064307	1228	9136638	2	9206185	5	9272928	9	9336846	1	59
2	9065535	8	9137820	1	9207321	5	9274017	8	9337887	1	58
3	9066763	7	9139001	0	9208456	4	9275105	7	9338928	1040	57
4	9067990	6	9140181	1180	9209590	3	9276192	6	9339968	1039	56
5	9069216	5	9141361	1179	9210723	2	9277278	5	9341007	8	55
6	9070441	4	9142540	3	9211855	1	9278363	5	9342045	7	54
7	9071665	4	9143718	7	9212986	1130	9279448	4	9343084	7	53
8	9072889	3	9144895	7	9214117	1129	9280532	3	9344119	6	52
9	9074112	2	9146072	6	9215247	1128	9281615	2	9345155	5	51
10	9075334	1	9147248	5	9216376	8	9282697	1	9346190	4	50
11	9076555	0	9148423	4	9217504	7	9283778	1	9347224	3	49
12	9077775	1220	9149597	3	9218631	7	9284859	1080	9348257	2	48
13	9078995	1219	9150770	3	9219758	6	9285939	1079	9349289	2	47
14	9080214	8	9151943	2	9220884	6	9287018	8	9350321	1	46
15	9081432	8	9153115	1	9222010	5	9288096	7	9351352	1030	45
16	9082649	7	9154286	1	9223135	4	9289173	7	9352382	1029	44
17	9083866	6	9155457	1170	9224259	3	9290250	6	9353411	9	43
18	9085082	5	9156627	1169	9225384	2	9291326	5	9354440	8	42
19	9086297	5	9157796	8	9226504	1	9292401	5	9355468	7	41
20	9087512	4	9158964	7	9227625	1	9293476	4	9356495	6	40
21	9088726	3	9160131	6	9228746	1120	9294550	3	9357521	5	39
22	9089939	2	9161297	6	9229866	1119	9295623	2	9358546	5	38
23	9091151	1	9162463	5	9230985	8	9296695	1	9359571	4	37
24	9092362	1210	9163628	4	9232103	7	9297766	1070	9360595	3	36
25	9093572	1209	9164792	3	9233220	7	9298836	1069	9361618	2	35
26	9094781	9	9165955	2	9234337	6	9299905	9	9362640	2	34
27	9095990	8	9167117	2	9235453	5	9300974	8	9363662	1	33
28	9097198	8	9168279	1	9236568	4	9302042	7	9364683	1020	32
29	9098406	7	9169440	1	9237682	3	9303109	7	9365703	1019	31
30	9099613	6	9170601	1160	9238795	3	9304176	6	9366722	8	30
	24		23		22		21		20		

IN CIRCULO RECTARVM LINEARVM.

		65		66		67		68		69		
59	31	9100819	5	9171761	1152	9239908	2	9305242	5	9367740	8	29
58	32	9102024	4	9172920	8	9241020	1	9306307	4	9368758	7	28
57	33	9103228	4	9174078	7	9242131	1	9307371	3	9369775	6	27
56	34	9104432	3	9175235	6	9243242	1110	9308434	3	9370791	5	26
55	35	9105635	2	9176391	6	9244352	1109	9309497	2	9371806	4	25
54	36	9106837	1	9177547	5	9245461	8	9310559	1	9372820	4	24
53	37	9108038	0	9178702	4	9246569	7	9311620	1060	9373834	3	23
52	38	9109238	1200	9179856	3	9247676	6	9312680	1059	9374847	2	22
51	39	9110438	1199	9181009	2	9248782	6	9313739	9	9375859	1	21
50	40	9111637	8	9182161	2	9249888	5	9314798	8	9376870	1010	20
49	41	9112835	7	9183313	1	9250993	4	9315856	7	9377880	1009	19
48	42	9114032	7	9184464	1150	9252097	3	9316913	6	9378889	9	18
47	43	9115229	6	9185614	1149	9253200	3	9317969	5	9379898	8	17
46	44	9116425	5	9186763	9	9254303	2	9319024	5	9380906	9	16
45	45	9117620	4	9187912	8	9255405	1	9320079	4	9381913	6	15
44	46	9118814	3	9189060	7	9256506	0	9321133	3	9382919	6	14
43	47	9120007	3	9190207	6	9257606	1100	9322186	2	9383925	5	13
42	48	9121200	2	9191353	6	9258706	1099	9323238	2	9384930	4	12
41	49	9122392	2	9192499	5	9259805	8	9324290	1	9385934	3	11
40	50	9123584	1	9193644	4	9260903	7	9325341	1050	9386937	2	10
39	51	9124775	1190	9194788	3	9262000	6	9326391	1049	9387939	2	9
38	52	9125965	1189	9195931	2	9263096	6	9327440	8	9388941	1	8
37	53	9127154	8	9197073	2	9264192	5	9328488	7	9389942	1000	7
36	54	9128342	7	9198215	1	9265287	4	9329535	7	9390942	999	6
35	55	9129529	7	9199356	1140	9266381	3	9330582	6	9391941	9	5
34	56	9130716	8	9200496	1139	9267474	2	9331628	5	9392940	8	4
33	57	9131902	5	9201635	9	9268566	2	9332673	4	9393938	7	3
32	58	9133087	4	9202774	8	9269658	1	9333717	4	9394935	6	2
31	59	9134271	4	9203912	8	9270749	1090	9334761	3	9395931	5	1
30	60	9135455	3	9205040	5	9271839	1089	9335804	2	9396926	7	0
		24		23		22		21		20		

CANON SVBTENSARVM

	70		71		72		73		74		
1	9397921	4	9456133	6	9511464	8	9563898	849	9613418	1	59
2	9398915	3	9457079	5	9512362	7	9564747	9	9614219	800	58
3	9399908	2	9458024	4	9513259	6	9565595	8	9615019	799	57
4	9400900	1	9458968	3	9514155	5	9566444	7	9615818	8	56
5	9401891	1	9459911	3	9515050	4	9567291	6	9616616	7	55
6	9402882	990	9460854	2	9515944	4	9568137	5	9617413	6	54
7	9403872	989	9461796	1	9516838	3	9568982	4	9618209	6	53
8	9404861	8	9462737	940	9517731	2	9569826	4	9619005	5	52
9	9405849	7	9463677	939	9518623	1	9570670	3	9619800	4	51
10	9406836	6	9464616	9	9519514	0	9571513	2	9620594	3	50
11	9407822	6	9465555	8	9520404	890	9572355	1	9621387	2	49
12	9408808	5	9466493	7	9521294	889	9573196	840	9622179	2	48
13	9409793	4	9467430	6	9522183	8	9574036	839	9622971	1	47
14	9410777	3	9468366	5	9523071	7	9574875	9	9623762	790	46
15	9411760	2	9469301	5	9523958	6	9575714	8	9624552	789	45
16	9412742	2	9470236	4	9524844	6	9576552	7	9625341	8	44
17	9413724	1	9471170	3	9525730	5	9577389	6	9626129	8	43
18	9414705	0	9472103	2	9526615	4	9578225	6	9626917	7	42
19	9415685	980	9473035	2	9527499	3	9579061	5	9627704	6	41
20	9416665	979	9473967	1	9528382	2	9579898	4	9628490	5	40
21	9417644	8	9474898	930	9529264	2	9580730	3	9629275	4	39
22	9418622	7	9475828	929	9530146	1	9581563	2	9630059	4	38
23	9419599	6	9476757	8	9531027	830	9582395	1	9630843	3	37
24	9420575	5	9477685	7	9531907	829	9583226	1	9631626	2	36
25	9421550	5	9478612	7	9532786	8	9584057	830	9632408	1	35
26	9422525	4	9479539	6	9533664	7	9584887	829	9633189	730	34
27	9423499	3	9480465	5	9534541	7	9585716	8	9633969	779	33
28	9424472	2	9481390	4	9535418	6	9586544	7	9634748	9	32
29	9425444	1	9482314	3	9536294	5	9587371	6	9635527	8	31
30	9426415	1	9483237	3	9537165	4	9588197	6	9636305	7	30
	19		18		17		16		15		

IN CIRCVLO RECTARVM LINEARVM.

	70		71		72		73		74		
31	9427386	970	9484160	2	9538043	4	9589023	5	9637082	6	29
32	9428356	969	9485082	1	9538917	3	9589848	4	9637858	5	28
33	9429325	8	9486001	920	9539790	2	9590672	3	9638633	5	27
34	9430293	7	9486923	919	9540662	1	959149	3	9639408	4	26
35	9431260	7	9487842	9	9541533	370	9592318	2	9640182	3	25
36	9432227	6	9488761	8	9542403	869	9593146	1	9640955	2	24
37	9433193	5	9489679	7	9543272	9	9593961	820	9641727	1	23
38	9434158	4	9490596	6	9544141	89	9594781	819	9642498	0	22
39	9435122	3	9491512	5	9545009	7	9595600	9	9643268	770	21
40	9436085	3	9492427	4	9545876	6	9596415	8	9644038	769	20
41	9437048	2	9493341	4	9546742	5	9597235	7	9644807	8	19
42	9438010	1	9494255	3	9547607	5	9598054	6	9645575	7	18
43	9438971	960	9495168	2	9548472	4	9598870	5	9646342	6	17
44	9439931	959	9496080	1	9549336	3	9599685	4	9647108	5	16
45	9440890	9	9496991	1	9550199	2	9600495	4	9647873	5	15
46	9441849	8	9497902	910	9551061	1	9601313	3	9648638	4	14
47	9442807	7	9498812	909	9551922	1	9602126	2	9649402	3	13
48	9443764	7	9499721	89	9552783	860	9602936	1	9650165	2	12
49	9444720	6	9500629	7	9553643	859	9603749	810	9650927	2	11
50	9445676	5	9501536	7	9554502	8	9604559	809	9651689	1	10
51	9446631	4	9502443	6	9555360	7	9605368	9	9652450	760	9
52	9447585	3	9503349	5	9556217	7	9606177	8	9653210	759	8
53	9448538	2	9504254	4	9557074	6	9606985	7	9653969	8	7
54	9449490	1	9505158	3	9557930	5	9607792	6	9654727	7	6
55	9450441	1	9506061	2	9558785	4	9608598	5	9655484	6	5
56	9451392	950	9506963	2	9559639	3	9609403	5	9656240	6	4
57	9452342	949	9507865	1	9560492	3	9610208	4	9656996	5	3
58	9453291	8	9508766	900	9561345	2	9611012	3	9657751	4	2
59	9454239	7	9509666	899	9562197	1	9611815	2	9658505	3	1
60	9455186	7	9510565	9	9563048	850	9612617	1	9659258	2	0
	19		18		17		16		15		

CANON SVBTENSARVM

75		76		77		78		79			
1	9660011	2	9703660	3	9744355	3	9782080	4	9816827	4	59
2	9660763	1	9704363	2	9745008	2	9782684	3	9817381	3	58
3	9661514	730	9705063	1	9745660	2	9783287	2	9817934	2	57
4	9662264	749	9705766	700	9746312	1	9783889	1	9818486	1	56
5	9663013	8	9706466	699	9746963	650	9784490	600	9819037	550	55
6	9663761	7	9707165	3	9747613	649	9785090	599	9819587	0	54
7	9664508	7	9707863	8	9748262	8	9785689	9	9820137	540	53
8	9665255	6	9708561	7	9748910	7	9786289	8	9820686	8	52
9	9666001	5	9709258	6	9749557	6	9786836	7	9821234	7	51
10	9666746	4	9709954	5	9750203	6	9787483	6	9821781	6	50
11	9667490	3	9710649	4	9750849	5	9788079	5	9822227	5	49
12	9668233	3	9711343	3	9751494	4	9788674	4	9822872	5	48
13	9668976	2	9712036	3	9752138	3	9789268	4	9823417	4	47
14	9669718	1	9712729	2	9752781	2	9789862	3	9823961	3	46
15	9670459	740	9713421	1	9753423	2	9790455	2	9824504	2	45
16	9671199	739	9714112	690	9754065	1	9791047	1	9825046	1	44
17	9671938	9	9714802	689	9754706	640	9791638	0	9825587	1	43
18	9672677	8	9715491	9	9755346	639	9792228	590	9826128	540	42
19	9673415	7	9716180	8	9755985	8	9792818	580	9826668	530	41
20	9674152	6	9716868	7	9756623	7	9793407	8	9827207	8	40
21	9674888	5	9717555	6	9757260	7	9793995	7	9827743	7	39
22	9675623	4	9718241	5	9757897	6	9794582	6	9828282	6	38
23	9676357	4	9718926	4	9758533	5	9795168	5	9828818	5	37
24	9677091	3	9719610	4	9759168	4	9795753	4	9829354	5	36
25	9677824	2	9720294	3	9759802	3	9796337	4	9829889	4	35
26	9678556	1	9720977	2	9760435	2	9796921	3	9830423	3	34
27	9679287	730	9721659	1	9761067	1	9797504	2	9830950	2	33
28	9680017	0	9722340	680	9761699	1	9798086	1	9831488	1	32
29	9680747	729	9723020	679	9762330	630	9798667	0	9832015	0	31
30	9681476	8	9723699	9	9762960	620	9799247	580	9832540	530	30
14		13		12		11		10			

IN CIRCULO RECTARVM LINEARVM.

	75		76		77		78		79		F
31	9682204	7	9724378	18	9763589	8	9799827	57	9833079	52	
32	9682931	6	9725056	7	9764217	8	9800406	8	9833608	8	
33	9683657	6	9725733	6	9764845	7	9800984	7	9834136	7	2
34	9684383	5	9726407	6	9765472	6	9801561	6	9834663	6	2
35	9685108	4	9727085	5	9766096	5	9802137	5	9835189	5	2
36	9685832	3	9727760	4	9766723	4	9802712	4	9835714	4	2
37	9686555	2	9728434	3	9767347	3	9803287	4	9836239	4	2
38	9687277	1	9729107	2	9767970	3	9803861	3	9836763	3	2
39	9687998	1	9729779	1	9768593	2	9804434	2	9837286	2	2
40	9688719	720	9730450	670	9769215	1	9805006	1	9837808	1	2
41	9689439	719	9731120	669	9769836	620	9805577	570	9838329	1	15
42	9690158	8	9731789	9	9770456	619	9806147	569	9838850	520	15
43	9690876	7	9732458	8	9771075	8	9806716	9	9839370	519	17
44	9691593	6	9733126	7	9771693	8	9807285	8	9839889	8	16
45	9692309	6	9733793	6	9772311	7	9807853	7	9840407	7	15
46	9693025	5	9734459	5	9772928	6	9808420	6	9840924	6	14
47	9693740	4	9735124	5	9773544	5	9808986	5	9841440	6	13
48	9694454	3	9735789	4	9774159	4	9809551	5	9841956	5	12
49	9695167	2	9736453	3	9774773	4	9810116	4	9842471	4	11
50	9695879	1	9737116	2	9775387	3	9810680	3	9842985	3	10
51	9696590	1	9737778	1	9776000	2	9811243	2	9843498	2	9
52	9697301	710	9738439	660	9776612	1	9811805	1	9844010	1	8
53	9698011	709	9739099	659	9777223	610	9812366	0	9844521	1	7
54	9698720	8	9739759	658	9777833	609	9812926	560	9845032	510	6
55	9699428	7	9740418	8	9778442	8	9813486	559	9845542	509	5
56	9700135	7	9741076	7	9779050	8	9814045	8	9846051	8	4
57	9700842	6	9741733	6	9779658	7	9814603	7	9846559	7	3
58	9701548	5	9742389	6	9780265	6	9815160	6	9847066	6	2
59	9702253	4	9743043	5	9780871	5	9815716	6	9847572	6	1
60	9702957	3	9743700	5	9781476	4	9816272	5	9848078	5	0
	14		13		12		11		10		

CANON SVBTENS ARVM

80	81	82	83	84	
19848583	49877338	49903085	49925816	39945523	359
29849087	39877792	39903489	39926169	29945826	258
39849590	29878245	29903891	29926521	29946128	157
49850092	19878697	19904294	19926873	19946429	30056
59850593	09879148	09904697	4009927224	3509946729	29955
69851093	5009879598	4509905093	3999927574	3499947028	954
79851593	4999880048	4499905494	99927923	89947327	653
89852092	79880497	89905893	89928271	79947625	852
99852290	79880945	79906291	79928618	79947922	751
109853087	69881392	69906688	69928965	69948218	550
119853583	69881838	59907084	59929311	59948513	449
129854079	59882283	59907479	49929656	49948807	348
139854574	49882728	49907873	39930000	39949100	347
149855068	39883172	39908266	39930343	29949393	246
159855561	29883615	29908659	29930685	19949685	145
169856053	19884057	19909051	19931028	19949976	29044
179856544	19884498	09909442	3909931367	3409950266	28943
189857035	4909884938	4409909832	3899931707	3399950555	942
199857525	4399885378	4399910221	99932046	89950844	841
209858014	89885817	89910610	89932384	79951132	740
219858502	79886255	79910998	79932721	69951415	639
229858989	69886692	69911385	69933057	69951705	538
239859475	69887128	69911771	59933393	59951990	437
249859961	59887564	59912156	49933728	49952274	336
259860446	49887999	49912540	39934062	39952557	335
269860930	39888433	39912923	39934395	29952840	234
279861413	29888866	29913306	29934727	19953122	133
289861895	19889298	19913688	19935058	19953403	28032
299862376	09889739	4109914069	5809935389	3309953683	27931
309862856	4809890159	4299914449	3799935719	3299953962	830
9	8	7	6	5	

IN CIRCVLO RECTARVM LINEARVM.

	80		81		82		83		84		
31	986333 6	479	9890538	9	9914828	8	9936048	8	9954240	8	29
32	986381 5	8	9891017	8	9915206	8	9936376	7	9954518	7	28
33	9864293	7	9891445	7	9915584	7	9936703	6	9954795	6	27
34	9864770	6	9891872	6	9915961	6	9937029	6	9955071	5	26
35	9865246	6	9892298	5	9916337	5	9937355	5	9955346	4	25
36	9865722	5	9892723	4	9916712	4	9937680	4	9955620	3	24
37	9866197	4	9893147	4	9917086	3	9938004	3	9955893	2	23
38	9866671	3	9893571	3	9917459	3	9938327	2	9956165	2	22
39	9867144	2	9893994	2	9917832	2	9938649	1	9956437	1	21
40	9867616	1	9894416	1	9918204	1	9938970	320	9956708	270	20
41	9868087	0	9894837	0	9918575	370	9939290	319	9956978	269	19
42	9868557	470	9895257	420	9918945	369	9939609	299	9957247	8	18
43	9869027	469	9895677	419	9919314	3	9939928	8	9957515	7	17
44	9869496	8	9896096	8	9919682	7	9940246	7	9957782	7	16
45	9869964	7	9896514	7	9920049	7	9940563	6	9958049	6	15
46	9870431	6	9896931	6	9920416	6	9940879	5	9958315	5	14
47	9870897	5	9897347	5	9920782	5	9941194	5	9958580	4	13
48	9871362	5	9897762	5	9921147	4	9941509	4	9958844	3	12
49	9871827	4	9898177	4	9921511	3	9941823	3	9959107	3	11
50	9872291	3	9898591	3	9921874	2	9942136	2	9959370	2	10
51	9872754	2	9899004	2	9922236	2	9942448	1	9959632	1	9
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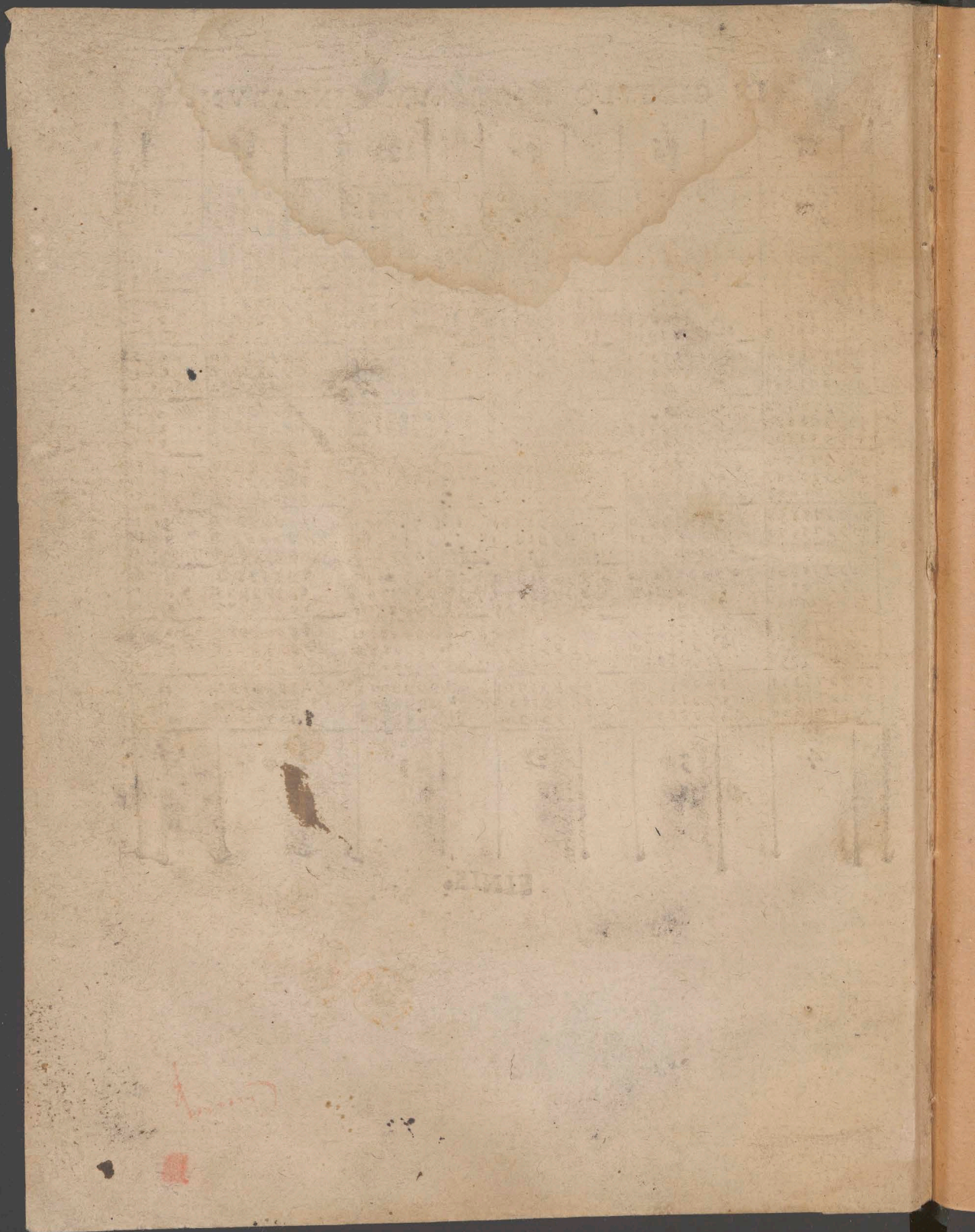
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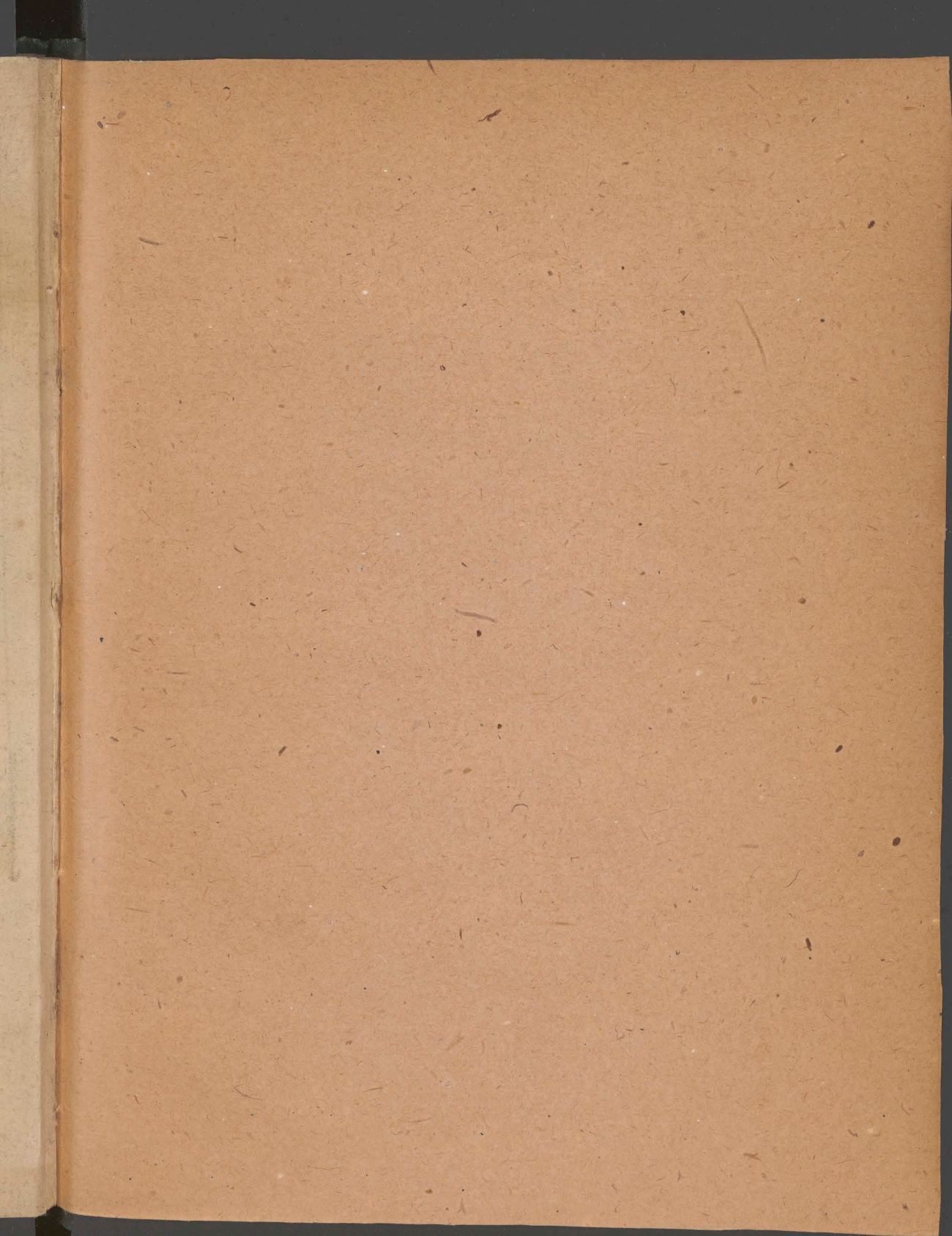
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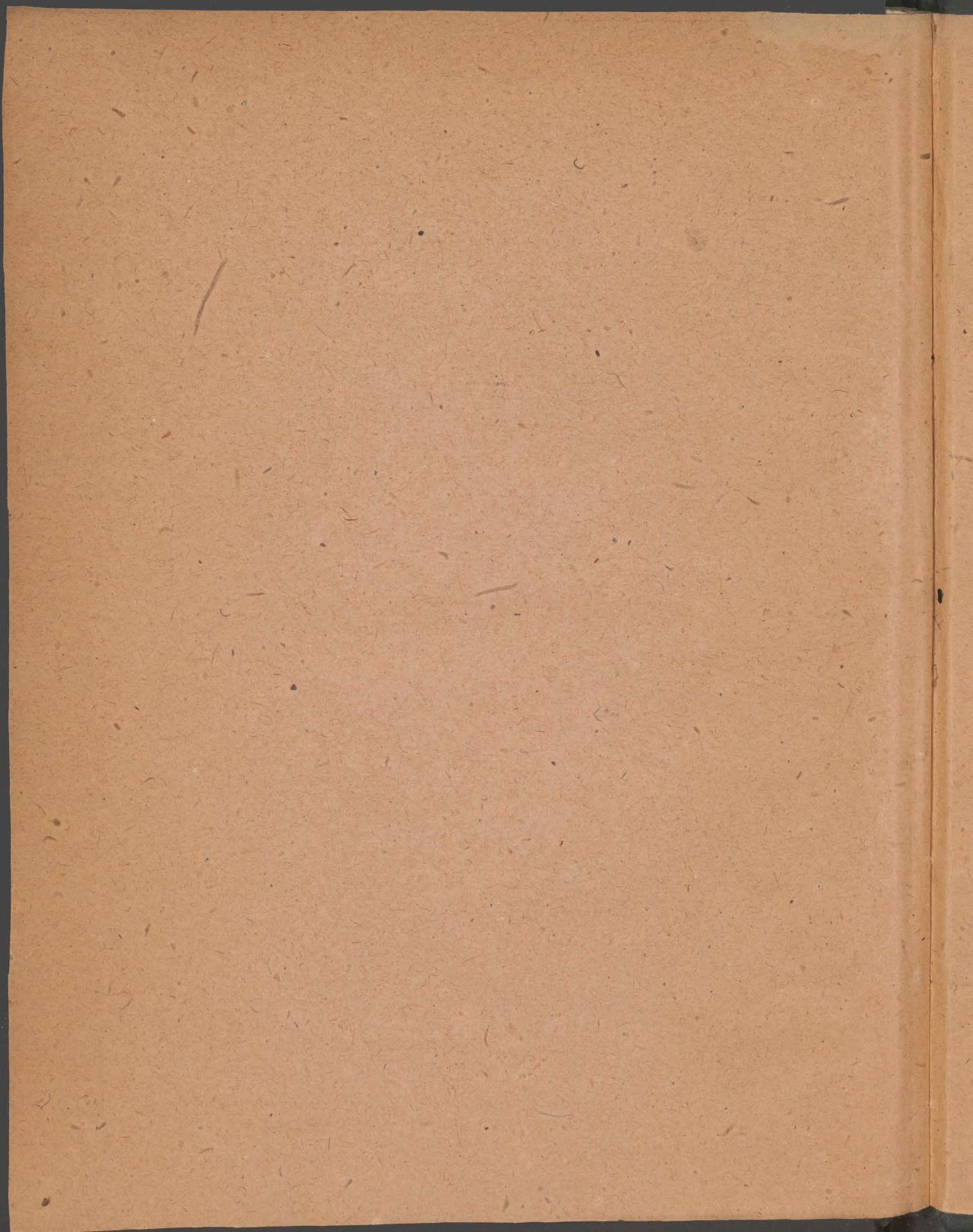
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Coll. Grunvl

Biblioteka Jagiellońska



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